

User Manual

Aptean Food and Beverage ERP

Product Specification

Product Documentation



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Release notes

Article • 7/22/2026 • 2 min read

To view what's new or changed in each release of the Aptean Product Specification extension, select the specific release version.

Date	Release version	Description
July 2026	2603.0.0.0	Major release
June 2026	2602.2.0.0	Minor release
May 2026	2602.1.0.0	Minor release
April 2026	2602.0.0.0	Major release
March 2026	2601.4.0.0	Stability release
February 2026	2601.3.0.0	Stability release
February 2026	2601.2.0.0	Stability release
January 2026	2601.1.0.0	Stability release
January 2026	2601.0.0.0	Feature release
December 2025	2503.2.0.0	Stability release
November 2025	2503.1.0.0	Stability release
October 2025	2503.0.0.0	Feature release
September 2025	2502.1.0.0	Stability release
September 2025	2502.0.0.0	Feature release
August 2025	2501.8.0.0	Stability release
July 2025	2501.7.0.0	Platform release
July 2025	2501.6.0.0	Stability release
June 2025	2501.5.0.0	Platform release
May 2025	2501.4.0.0	Stability release
March 2025	2501.3.0.0	Stability release



February 2025	2501.2.0.0	Stability release
February 2025	2501.1.0.0	Stability release
February 2025	2501.0.0.0	Feature release
January 2025	1.32.207707.0	Platform release
January 2025	1.31.207190.0	Platform release
December 2024	1.30.203546.0	Platform release
December 2024	1.29.202662.0	Platform release
November 2024	1.28.197844.0	Stability release
November 2024	1.27.197100.0	Stability release
November 2024	1.26.193197.0	Stability release
October 2024	1.25.191180.0	Platform release
October 2024	1.24.191010.0	Platform release
September 2024	1.23.185166.0	Platform release
September 2024	1.22.183438.0	Platform release
September 2024	1.21.182858.0	Stability release
September 2024	1.20.182407.0	Platform release
September 2024	1.19.181973.0	Platform release
August 2024	1.18.179488.0	Stability release
August 2024	1.17.178606.0	Stability release
June 2024	1.16.167338.0	Stability release
May 2024	1.15.163263.0	Platform release
April 2024	1.14.156630.0	Stability release
April 2024	1.13.154952.0	Stability release
March 2024	1.12.151311.0	Stability release
January 2024	1.11.139359.0	Stability release



June 2023	1.10.102333.0	Stability release
May 2023	1.9.96137.0	Stability release
March 2023	1.8.87027.0	Stability release
March 2023	1.7.85160.0	Stability release
February 2023	1.6.81921.0	Stability release
February 2023	1.5.80758.0	Stability release
December 2022	1.4.71351.0	Stability release
October 2022	1.3.63636.0	Stability release
August 2022	1.2.56464.0	Stability release
August 2022	1.2.55782.0	Stability release
May 2022	1.2.48008.0	Stability release
February 2022	1.1.43671.0	Stability release



2603.0.0.0

Release Note • 7/22/2026 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
372128	The system fails to correctly calculate the weight of packaging materials that are derived through a multi-level bill of material.
380638	The system fails to display the members of an ingredient group in the same order when the group appears at different nesting depths in a multi-level product specification.
382685	The system incorrectly merges ingredient consumptions from different BOM levels into a single entry in the Ingredient Nesting Tree when the same ingredient group appears at multiple nesting depths in a multi-level product specification, causing the ingredient declaration to consolidate separate consumption paths instead of displaying each group's members in a consistent order by descending weight at every level.



2602.2.0.0

Release Note • 6/24/2026 • 2 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the system excludes the BOM component from product specification calculations for the end product when the **Processing Aid** toggle in a production BOM line is turned on. This ensures that auxiliary materials such as dusting flour used during production but not present in the final product are excluded. The exclusion applies across all calculation sections triggered by the **Calculate Food Declaration** action: nutritional values, ingredient declarations, etc. The **Processing Aid** toggle is evaluated per individual Production BOM line, meaning the same item can be excluded on one BOM level while still contributing through another BOM level when the toggle is turned off. This enhancement addresses the issue reported in bug ID #375634.

UI/UX changes

The **Processing Aid** toggle has been added to the **Production BOM** and **Production BOM Tree** pages.

Resolved issues

The following issues have been resolved in this release.

ID	Description
375634	The system excludes the BOM component from product specification calculations for the end product when the Processing Aid toggle in a production BOM line is turned on.
371378	The system does not display the Version No. field value in the title and header of the Product Specification report.
375721	The system fails to correctly display allergen-related information on the Product Specification report, affecting the allergen legend entries and the allergen summary section.



2602.1.0.0

Release Note • 5/27/2026 • 1 min read

Resolved issues

The following issues have been resolved in this release.

ID	Description
373210	An error occurs when opening the Item Attributes page as the system validates attribute names without excluding the current record during the duplicate check.
373405	The system fails to sort ingredients and ingredient groupings on the Ingredient Declaration page by percentage in descending order from highest to lowest percentage.
371698	The system incorrectly resets the Manual Value field value to 0 on the Production Specification Nutritional Values page linked to the Product Specification End Product page when manually updating the field and then executing the Calculate Food Declaration action.



2602.0.0.0

Release Note • 4/22/2026 • 2 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension,

- The system correctly displays the **Net Weight** and **Gross Weight** field values on the **Product Specification** report (70234430) without unnecessary trailing zeros. Previously, values such as 0.00011 were printed as 0.00011000000000000000 in the **Logistics** section of the report.
- The handling of ingredient groups in product specifications has been improved. You must assign **Ingredient Group Codes** field value on the **Product Specification Semi Product** page to enable proper nesting of ingredients in finished product declarations. Additionally, you can also view ingredient groups and their hierarchy on the **Ingredient Nesting Tree** page, improving the accuracy and consistency of food declarations across all product levels.

UI/UX changes

The following UI/UX changes have been made in this release.

- The **Ingredient Nesting Tree** page has been added.
- The **Ingredient Group Code** field has been added to the **Product Specification Semi Product** page.

Resolved issues

The following issues have been resolved in this release.

ID	Description
367210	The system fails to include the scrap % value when calculating the Expected Quantity field value on the Production Variance report. Instead, it uses an incorrect calculation method, which resulted in inaccurate and inconsistent values compared to the related field value in the production order component lines.
367202	The system fails to correctly apply the characterizing component (QUID) rules in the Ingredient Declaration section of the Product Specification report (Report 70234430), resulting in incorrect or missing QUID information in the output.



369983	The system fails to deploy version 2601.4.0.0 when it is included in the Aptean Advanced Bundle for Food & Beverage Manufacturing.
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2601.4.0.0

Release Note • 3/25/2026 • 2 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the **Item Template** page supports direct selection of a product specification template, similar to the functionality available on the **Item Card** page. This enhancement simplifies item setup and ensures that the correct specification structure is automatically applied when an item is created using an item template.

Resolved issues

The following issues have been resolved in this release.

ID	Description
358558	The system fails to calculate ingredient values consistently for the end product when using the original BOM (PH-0001) and a copied BOM (PH-0001-COPY). As a result, the system displays different values for the same product on the Ingredients page.
303980	The system fails to display correct packaging items from the phantom BOM when calculating the food declaration on the Product Specification End Product or Product Specification Semi Product page.
285991	The system incorrectly calculates the weight of packaging materials on the Product Specification End Products page when the production BOM has a multi-level structure. This issue occurs when the base quantity conversion uses the BOM header unit of measure code instead of the BOM line unit of measure code, causing incorrect unit-of-measure conversions.
363257	The system incorrectly displays the caption of the % RI per Serving field in the Nutritional Values section of the Product Specification report (Report 70234430) as % RI per Portion .



2601.3.0.0

Release Note • 2/25/2026 • 2 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension,

- You can view the irreversible feature toggle on the **Feature Control** page to extend the field length up to 1000 characters. The toggle displays a warning before activation and cannot be reversed. This enhancement addresses the issue reported in bug ID #345797.
- The caption for the **Per Portion** field in the **Nutritional Values** section on the **Product Specification** report (Report 70234430) has been updated to **Per Serving** to improve clarity and maintain consistency. This enhancement addresses the issue reported in bug ID #345423.
- The **Protected** property has been removed from selected global variables to allow their use in Report 70234430 – ProductSpecificationFDW. This enhancement addresses the issue reported in bug ID #354657.
- The tooltip for the **Ingredients** toggle on the **Copy From Specification** page has been curated for better guidance and readability. This enhancement addresses the issue reported in bug ID #353491.

UI/UX changes

The following UI/UX changes have been made in this release.

- A new irreversible feature toggle has been added to the **Feature Control** page, allowing users to extend the field length up to 1000 characters.
- A warning message is displayed before activation to inform users that the change cannot be reversed.
- The **Per Portion** field has been renamed as **Per Serving** on the **Product Specification** report (Report 70234430).

Resolved issues

The following issue has been resolved in this release.

ID	Description
347082	The system fails to update the Presence and Presence LEDA field values on the Product Specification Allergen page when executing the Replenish Product Specification action on the Ingredients page.



340506	The system incorrectly displays the Sorting Order , Country Name and Unit of Measure Description field values on the Product Specification Standards report.
353491	The system displays an incorrect tooltip for the Ingredients toggle on the Copy From Specification page.
345797	The field length limitation prevented storing extended text values.
344940	The system fails to display the Preparation Advice caption on the Product Specification report.
345423	The system displays an inconsistent caption as Per Portion in the Nutritional Values section on the Product Specification report (Report 70234430).
354657	The protected property on selected global variables prevented their use in Report 70234430 – ProductSpecificationFDW.



2601.2.0.0

Release Note • 2/4/2026 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
344030	The system incorrectly calculates the nutritional value for water when executing the Calculate Food Declaration action on the Product Specification page.



2601.1.0.0

Release Note • 1/28/2026 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, control over interaction logging on the **Product Specification** report has been improved by turning off the **Log Interaction** by default when a product specification interaction template code is defined on the **Interaction Template Setup** page. You can still turn on the toggle manually, if required. This change addresses the issue reported in bug ID #337355.

Resolved issues

The following issues have been resolved in this release.

ID	Description
337355	The system incorrectly turns on the Log Interaction toggle by default on the Product Specification Report when a product specification interaction template code is defined on the Interaction Template Setup page.
337305	The system displays an incorrect error message on the Product Specification End Product page when using the Calculate Food Declaration action for a product that includes a certified semi-product with the Calculation Not Allowed toggle turned on.



2601.0.0.0

Release Note • 1/28/2026 • 2 min read

Features

With the features added in this release of the Aptean Product Specification extension,

- The system creates and manages new versions of product specifications when there are changes to the production BOM or packaging details. The system allows you to create a new version from the **Product Specification Raw Material** page using the **Create New Version** action, define a new version code, and set a unique starting date to ensure only one version exists per starting date. For more information, see [Product Specification Raw Material](#).
- The **Product Specification Analysis** page supports additional filtering and data export capabilities. The system supports applying the **Line Filter** field value on the **Filters** FastTab when viewing the product specification analysis matrix and, supports an **Export All Items to Excel** action to export all product specification items in the analysis matrix to an Excel file. For more information, see [Product Specification Analysis](#).
- The **Product Specification** report includes the **Country of Origin** and **Allergens** columns and calculates ingredient presence percentages grouped by country of origin, while also providing a consolidated allergen summary based on recipe data. For more information, see [Product Specification Raw Material](#)

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the system validates the total **Limit Total Ingredients Manual %** field value on the **Ingredients** FastTab of the **Product Specification Raw Material** page does not exceed 100%. For more information, see [Set up product specification templates](#).

UI/UX changes

The following UI/UX changes have been made in this release.

- The **Export All Items to Excel** action has been added to the **Product Specification Analysis** page.
- The **New Version Code Implementation** and **New Version Code** fields have been added to the **Create New Product Specification Version** report.
- The **Line Filter** field has been added to the **Filter** FastTab of the **Product Specification Analysis** page.
- The **Limit Total Ingredients Manual %** field has been added to the **Ingredients** FastTab of the **Product Specification Setup** page.
- The **Country of Origin** and **Allergen Summary** columns have been added to the **Product Specification** report.



2503.2.0.0

Release Note • 12/22/2025 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
345302	When the language is set to Dutch, the system incorrectly translates and displays product specification allergen information in the label details, and does not show all applicable allergen statements when multiple allergen indicators are present.



2503.1.0.0

Release Note • 11/26/2025 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension,

- The translation files for the following languages have been updated with standard texts for better readability.
 - Danish (da-DK)
 - Swedish (sv-SE)
- You can replenish product specifications for selected ingredients based on specific statuses. To know more, see [Replenish product specifications by status](#)

UI/UX changes

The **Select Product Specification Statuses** page has been added.

Resolved issues

The following issue has been resolved in this release.

ID	Description
332553	The system incorrectly updates the Status field value as <i>Certified</i> or <i>Closed</i> for product specifications when executing the Replenish Product Specifications action on the Ingredient page.



2503.0.0.0

Release Note • 10/22/2025 • 2 min read

Features

With the features added in this release of the Aptean Product Specification extension, you can:

- Filter product specification lines by specification template and manage status changes directly from the **Product Specification End Product**, **Product Specification Semi Products**, and **Product Specification Raw Materials** pages. This enhancement streamlines the workflow for managing product specifications across raw materials, packaging, semi-products, and end products.
- Indicate trace presence of allergens using the new trace symbol. This enhancement provides better alignment with LeDa code standards for allergen labeling. For more information, see [Product specification raw material](#).

Enhancements/Modifications

With this release of the Aptean Product Specification extension,

- The **Product Specification** report has been enhanced to include additional information for improved clarity and completeness. For more information, see [Product specifications](#).
- The fat percentage limit validation has been enhanced to be optional based on industry requirements. The system performs validation only when limit values are configured on the **Product Specification Setup** page. For more information, see [Set up product specification templates](#).
- You can include or exclude attributes from all sub-levels when running the calculate report for a product specification using the **Exclude Attributes from Sub-level** toggle on the **General** FastTab of the **Product Specification End Product** and **Product Specification Semi Product** pages. For more information, see [Product specification semi product](#) and [Product specification end product](#).

UI/UX changes

The following UI/UX changes have been made in this release:

- The **Change Status** action has been added to the following pages:
 - Product Specification Raw Materials
 - Product Specification Packaging
 - Product Specification Semi Products
 - Product Specification End Products



- The **Specification Template Code** field has been added to the following pages:
 - Product Specification Raw Materials
 - Product Specification Semi Products
 - Product Specification End Products
- The tilde symbol (~) option has been added to the **Presence** field on the **Product Specification Allergens** page.

Resolved issues

The following issues have been resolved in this release.

ID	Description
325260	The system restricts to enter value with three decimal place in the Manual % field on the Product Specifications page.
329855	The system displays an incorrect explanation for the <i>U</i> value in the Presence field on the Product Specification report.



2502.1.0.0

Release Note • 9/24/2025 • 1 min read

Features

With the feature added in this release of the Aptean Product Specification extension, you can maintain translations for product specification fields in multiple languages, allowing you to define translated values that can be printed on specifications and reports. For more information, see [Product specification translations](#).

UI/UX changes

The following UI/UX changes have been made in this release.

- The **Product Specification Translations** page has been added.
- The **Translations** action has been added to the following pages:
 - Product Specifications Raw Materials
 - Product Specification Raw Material
 - Product Specifications Semi Products
 - Product Specification Semi Product
 - Product Specifications End Products
 - Product Specification End Product
 - Product Specifications Packaging
 - Product Specification Packaging

Resolved issues

The following issue has been resolved in this release.

ID	Description
318453	The system fails to print the translated value configured in the Description 2 field on the Item Translations page in the product specification report.



2502.0.0.0

Release Note • 9/2/2025 • 1 min read

Features

With the feature added in this release of the Aptean Product Specification extension, the system uses the **Variant Error Handling** field value on the **Product Specification Setup** page to manage variant mismatches between the Bill of Materials (BOMs) and product specifications. For more information, see [Set up product specification templates](#).

UI/UX changes

The **Variant Error Handling** field has been added to the **Product Specification Setup** page.



2501.8.0.0

Release Note • 8/27/2025 • 1 min read

Enhancements/Modifications

With the release of the Aptean Product Specification extension, the *NoSeriesManagement* codeunit has been replaced with the standard *No. Series* codeunit in the *ProductSpecificationFDW* table, to ensure compatibility with Business Central, version 27.

Resolved issues

The following issue has been resolved in this release.

ID	Description
308281	The system fails to set certain field values as non-editable on the Vendor Product Specification End Product page when the Status field value is set to <i>Certified</i> .



2501.7.0.0

Release Note • 7/30/2025 • 1 min read

Enhancements/Modifications

With the release of the Aptean Product Specification for Food and Beverage extension, the *CompanyAdr2* field length has been increased from 100 characters to 255 characters on the *ProductSpecificationFDW* codeunit to ensure compatibility with Business Central, version 27.



2501.6.0.0

Release Note • 7/2/2025 • 2 min read

Enhancement/Modifications

With this release of the Aptean Product Specification extension, the **Ingredient Code** field on the **Product Specification Ingredient Groups** page has been made non-editable. This enhancement has been made to address the issue reported in bug ID #295219.

UI/UX changes

The **Ingredient Code** field on the **Product Specification Ingredient Groups** page has been made non-editable.

Resolved issues

The following issues have been resolved in this release.

ID	Description
299335	The system fails to automatically update the Item No. field value on the Product Specification Card page when executing the Product Specification Overview action on the associated Item Card page.
302464	When the language is set to Dutch, the system incorrectly translates the caption name for the <i>Secondary</i> option on the Used As field on the Product Specification End Product PSRE24-001741 page.
295219	The system fails to generate the Ingredient Description , Ingredient Group Code , and Ingredient Group Description field values in alignment with the Ingredient Code field value on the Product Specification report. This issue occurs because the Ingredient Code field value on the Product Specification Ingredient Groups page is editable.
272024	When the language is set to Dutch, the system displays the name of the Function action with an incorrect spelling on the Additives and Ingredients pages.



2501.5.0.0

Release Note • 6/4/2025 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the *OnAfterInsertMainProdSpecIngredient* integration event has been added to the *ProductSpecifCalcProdFDW* codeunit. This event is triggered after a main product specification ingredient is inserted, allowing for integration with custom logic.



2501.4.0.0

Release Note • 5/21/2025 • 1 min read

UI/UX changes

The **Print on Label** checkbox has been renamed to **Print on Declaration** on the **Ingredient Countries of Origin** page.

Resolved issues

The following issue has been resolved in this release.

ID	Description
278677	The system incorrectly displays the checkbox name as Print on Label instead of Print on Declaration on the Ingredient Countries of Origin page.



2501.3.0.0

Release Note • 3/12/2025 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
272024	The system incorrectly displays the caption of the Function action on the Additives and Ingredients pages. This issue occurs when the language is set to Dutch.



2501.2.0.0

Release Note • 2/27/2025 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
266722	The system incorrectly displays option C as <i>U</i> in the Presence LEDA field on the Product Specification Allergens page when the language is set to Spanish.



2501.1.0.0

Release Note • 2/19/2025 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
265597	The system incorrectly displays an error message upon executing the Calculate Food Declaration action on the Product Specification End Product Card page, stating that the Production BOM No. field value on the Production BOM Tree page does not match the Item No. field value on the Product Specification End Product Card and Product Specification Semi Product pages.



2501.0.0.0

Release Note • 2/12/2025 • 1 min read

Features

With this release of the Aptean Product Specification extension, you can set up how the system rounds off the QUID (Quantitative Ingredient Declaration) percentage when printing them on labels in the **QUID% Label Printing Precision** field on the **Product Specification Setup** page. For more information, see [Set up product specification templates](#).

UI/UX changes

The **QUID% Label Printing Precision** field has been added to the **Product Specification Setup** page.

Resolved issues

The following issue has been resolved in this release.

ID	Description
264659	The system fails to display the Date field value in the US format on the Product Specification report when the Region field is set to <i>English (United States)</i> on the My Settings page.



1.32.207707.0

Release Note • 1/21/2025 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the *ActiveProdSpec* procedure in the *ProductSpecificationMgtFDW* codeunit has been updated to allow external access, enabling other system modules to call and use it.



1.31.207190.0

Release Note • 1/17/2025 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, events have been added to the *ProductSpecifCalcAssemblyFDW* and *ProductSpecifCalcProdFDW* codeunits allowing customization and enabling users to modify the logic. Additionally, events have been added to the *BOMComponent* and *ProductionBOMLine* table extensions, making them accessible for external third-party Business Central applications.



1.30.203546.0

Release Note • 12/24/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the *OnBeforeDisplayMessage* integration event has been added to the *CalculateFoodDeclarationFDW* report to skip messages when generating the report for multiple product specifications.



1.29.202662.0

Release Note • 12/18/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the *OnBeforeInsertMainProdSpecIngredient* integration event has been added to the *ProductSpecifCalcProdFDW* codeunit to enhance customization and flexibility in handling product specifications.



1.28.197844.0

Release Note • 11/28/2024 • 1 min read

UI/UX changes

The **Production BOM Tree** action has been renamed to **BOM Tree** on the following pages:

- **Product Specifications End Products** list
- **Product Specification End Product Card**
- **Product Specifications Packaging** list
- **Product Specification Packaging** card
- **Product Specifications Raw Materials** list
- **Product Specification Raw Material** card
- **Product Specifications Semi Products** list
- **Product Specification Semi Product** card
- **Vendor Product Specifications End Products** list
- **Vendor Product Specification Packaging** list
- **Vendor Product Specifications Raw Materials** list

Resolved issues

The following issue has been resolved in this release.

ID	Description
247266	The system incorrectly displays the page name as Production BOM Tree instead of Assembly BOM Tree when the Calculation Base field is set to <i>Assembly</i> on the Product Specification Setup page.



1.27.197100.0

Release Note • 11/26/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the system allows you to edit the **Scrap %** field value on the **Production BOM Tree** page irrespective of the value selected in the **Calculation Base** field on the **Product Specification Setup** page. This enhancement addresses the issue reported in bug ID #247268.

Resolved issues

The following issue has been resolved in this release.

ID	Description
247268	The system does not allow to edit the Scrap % field value on the Production BOM Tree page irrespective of the value selected in the Calculation Base field on the Product Specification Setup page.



1.26.193197.0

Release Note • 11/5/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
242425	The system displays incorrect alignment for specific columns when printing the product specification report in Dutch. The observed misalignments include: • Allergen column • Allergen LEDA column • Ingredient column • Item No. column • Lack of space between the Ingredient Details table and Nutritional Values table



1.25.191180.0

Release Note • 10/25/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the *Power BI Report Spinner Part* object has been removed from the *ProductSpecRoleCenterFDW* page to ensure compatibility with Business Central, version 26.



1.24.191010.0

Release Note • 10/24/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, the *Power BI Report Spinner Part* object has been made obsolete and replaced with *Power BI Embedded Report Part* on the *ProductSpecRoleCenterFDW* page to ensure compatibility with Business Central, version 26.



1.23.185166.0

Release Note • 9/23/2024 • 1 min read

Enhancements/Modifications

The *OnBeforeCheckProductionBOM* integration event has been added to the *ProductSpecInitProductionFDW* codeunit to provide flexibility in handling product specifications.



1.22.183438.0

Release Note • 9/16/2024 • 1 min read

Enhancements/Modifications

The *Internal* access restriction has been removed and the *OnBeforeAnalyseSpec* integration event has been added to the *ProductSpecInitProductionFDW* codeunit to support customization and flexibility in handling product specifications.



1.21.182858.0

Release Note • 9/12/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, you can turn on the **Update Allergens** toggle on the **Allergens** FastTab of the **Calculate Food Declaration** page, so the system calculates and updates details about the allergens on the **Product Specification Allergens** page. This enhancement addresses the issue reported in bug ID #230158.

Resolved issues

The following issue has been resolved in this release.

ID	Description
230158	The system fails to display the updated allergen values on the Product Specification Allergens page after executing the Calculate Food Declaration action on the associated Product Specification Raw Material page.

UI/UX changes

The **Allergens** FastTab has been added to the **Calculate Food Declaration** page.



1.20.182407.0

Release Note • 9/11/2024 • 1 min read

Enhancements/Modifications

The *OnBeforeRunCalculation* and *OnBeforeCheckProductionBomValid* integration events have been added to the *ProductSpecifCalcProdFDW* codeunit. Additionally, the *OnBeforeAnalyseSpec* integration event has been added to the *ProductSpecInitAssemblyFDW* codeunit. These additions enhance customization and flexibility in handling product specifications.



1.19.181973.0

Release Note • 9/9/2024 • 1 min read

Enhancements/Modifications

The *Internal* access restriction has been removed and the *OnBeforeFillData* integration event has been added to the *ProductSpecifCalcProdFDW* codeunit to enhance customization and flexibility in handling product specifications.



1.18.179488.0

Release Note • 8/28/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
226646	The system fails to display the blank option in the BIO field on the following pages: • Product Specification Raw Material • Product Specification Semi Product • Product Specification End Product Card • Vendor Product Specification Raw Material • Vendor Product Specification End Product



1.17.178606.0

Release Note • 8/23/2024 • 1 min read

Enhancements/Modifications

With this release of the Aptean Product Specification extension, modifications have been made to accommodate the following changes:

- Enhanced application interaction: Procedures have been added to enhance the application interaction, improve upgrade tag management, streamline upgrade and installation processes, and provide additional flexibility by managing upgrades on a per-company and per-database basis.
- Application area refresh: Updates have been implemented to improve the application area refresh process by integrating a new procedure into the *Enable* codeunit.
- Improved management of install and upgrade code: The *Install* and *Upgrade* codeunits have been updated to streamline the handling of installation, reinstallation, and upgrade processes, ensuring smoother transitions and minimizing disruptions during these operations.
- Centralized license management procedures: The existing license management codeunit has been modified to use centralized license management procedures, further reducing the need for application-specific adjustments.
- Enhancements have been made to update the process within the application to handle the *User Group* and *User Group Permission Set* tables. This change ensures compatibility with current and future versions of Business Central, even when the *User Group* and *User Group Permission Set* tables are deprecated.

! Note

The *User Group* and *User Group Permission Set* tables are deprecated in Business Central, version 25.



1.16.167338.0

Release Note • 6/20/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release.

ID	Description
213149	Unable to access or extend the internal procedures of the Aptean Product Specification extension, preventing users from customizing the application.



1.15.163263.0

Release Note • 5/30/2024 • 1 min read

Enhancements/Modifications

An integration event has been added to the *CalculateFoodDeclarationFDW (7023443)* report to facilitate its customization.



1.14.156630.0

Release Note • 4/25/2024 • 1 min read

Resolved issues

The following issues have been resolved in this release:

ID	Description
198274	Build issues occur due to the presence of quotation marks within the description specified in the app.json file.
196273	The description of the product specification option value is translated incompletely with 80 characters in the associated report as the Description field has the 80-character limit for translation, while the actual description allows up to 250 characters.



1.13.154952.0

Release Note • 4/17/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
193384	A permission set error occurs while deleting an item when the user exists with Product Specification Basic permission.



1.12.151311.0

Release Note • 3/28/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
187535	Incorrect language translations for specific terms within the Dutch language code (nl-NL).



1.11.139359.0

Release Note • 1/24/2024 • 1 min read

Resolved issues

The following issue has been resolved in this release:

ID	Description
172848	The translations of the Suitable for dietary section fields are inaccurate in the German versions (de-At, de-DE, de-CH) on the following pages: • Product Specification End Product • Product Specification Semi Product • Product Specification Raw Materials • Vendor Product Specification End Product • Vendor Product Specification Raw Material



1.10.102333.0

Release Note • 6/12/2023 • 1 min read

Resolved Issues

The following issue has been fixed in this release:

ID	Description
123433	The German caption of the Description Legal field on the Product Specification pages has been translated incorrectly.



1.9.96137.0

Release Note • 5/8/2023 • 1 min read

Resolved Issues

The following issue has been fixed in this release:

ID	Description
98219	After posting the assembly order, the product specification of the related item on the Product Specifications End Products list page gets deleted. This results in deleting the Specification No. of the item on the Production BOM Tree page.



1.8.87027.0

Release Note • 4/3/2023 • 1 min read

Resolved Issues

The following issue has been fixed in this release:

ID	Description
98219	After posting the assembly order, the product specification of the related item on the Product Specifications End Products list page gets deleted. This results in deleting the Specification No. of the item on the Production BOM Tree page.



1.7.85160.0

Release Note • 4/3/2023 • 1 min read

Enhancements/Modifications

The notification about the activation of the feature update in Feature Management is removed. This is done to accommodate the Item Reference feature, which is now activated by default in Microsoft Business Central.



1.6.81921.0

Release Note • 4/3/2023 • 1 min read

Resolved Issues

The following issues have been fixed in this release:

ID	Description
91325	Vendor No. is shown instead of Item No. on the error message when entering existing Item No. on the Product Specification Raw Material , Product Specification Semi Product , Product Specification End Product Card , and Product Specification Packaging pages.
91324	When <i>Decimal</i> option is selected in the Field Value field, the Value field is added with a zero at the end of the actual value while selecting the Refresh Lines action on the Product Specification Raw Material , Product Specification Semi Product , Product Specification End Product Card , and Product Specification Packaging pages.
94612	When <i>Decimal</i> option is selected in the Field Value field, the Value field is not updated correctly (dot is not updated to comma), while changing the region to Dutch (Belgium) on the Product Specification Raw Material , Product Specification Semi Product , Product Specification End Product Card , and Product Specification Packaging pages.



1.5.80758.0

Release Note • 4/3/2023 • 1 min read

Enhancements/Modifications

The Aptean Product Specification extension is now updated with minimal API to improve extensibility. The extensibility property applies to tables, pages, and other object types of this extension.

Note

Minimal APIs are a simplified approach for building fast HTTP APIs with ASP.NET Core. For more information, see [Minimal APIs overview](#) | [Microsoft Learn](#).



1.4.71351.0

Release Note • 4/3/2023 • 1 min read

Resolved Issues

The following issue has been fixed in this release:

ID	Description
83766	When printing the product specification report, the information is cut off and the report does not display the full text.



1.3.63636.0

Release Note • 4/3/2023 • 1 min read

Resolved Issues

The following issue has been fixed in this release:

ID	Description
48350	An error occurs when deleting an item if the indirect permission is set without SUPER permission.



1.2.56464.0

Release Note • 4/3/2023 • 1 min read

Enhancements / Modifications

Minor technical changes were made

- To seamlessly work with the Aptean [Integration Layer](#) extension.
- To seamlessly work with the Aptean Foundation Layer extension. This extension holds all the standard table values for its dependent extensions.



1.2.55782.0

Release Note • 4/3/2023 • 1 min read

Resolved Issues

The issues that were addressed in this release are listed in the following table:

ID	Description
55882	While defining the product specification for a raw material, if one of the fields is of type decimal, and the decimal value is entered in that field, the window closes with an error.
56713	Extensibility of Product Specification report was not allowed.
52097	While filling a value in a decimal field in the Product Specification Lines, an error occurs.
63340	The Product Specification app is displayed in French when the language in Business Central is set to Dutch (Belgium).
60340	While printing the product specification report, with blank or multiple numbers in the Specification No. field, the Ingredient Declaration is not calculated properly.
49845	Curated the QUID group field in the Ingredient Groups list page for better readability.
49846	Curated the tooltips to remove erroneous spellings and for better readability.



1.2.48008.0

Release Note • 4/3/2023 • 1 min read

Enhancements / Modifications

The enhancements in this release are listed below:

- A localized version of Product Specification extension is made available for the Switzerland market with the addition of German language code [de-CH].
- Minor technical changes were made to keep our apps in line with *updated* coding guidelines for Business Central.



1.1.43671.0

Release Note • 4/3/2023 • 1 min read

Enhancements / Modifications

The enhancements in this release are listed below:

- Updated protection level properties that provide extensibility to a number of tables.
- Minor technical changes were made to keep our apps in line with *updated* coding guidelines for Business Central.

Resolved Issues

The issues that were addressed in this release are listed in the following table:

ID	Description
34132	Curated the tooltips to remove erroneous spellings and for better readability.
41134	Curated the Product Specification report to remove erroneous spellings and for better readability.



Introduction

Article • 4/3/2023 • 2 min read

For the food and beverage industry, with the number of legislations for food safety and quality, managing product specifications and ingredient declarations can get complex.

The Apteian Product Specification (PRS) for Food and Beverage app, with its robust setup, calculation, and reporting capabilities, helps you seamlessly calculate, create and print product specifications.

Use the Apteian Product Specification app to create product specifications for the following class of items:

- Raw materials
- Semi products
- Packaging items
- End products

By defining the BOM structure, linking the classified items, and entering the raw material and packaging item specifications, the product specification for the semi-product or the end product can be calculated seamlessly.

Here are some of the key sections of a product specification report generated using the Apteian Product Specification app:

- General product information
- Ingredient declaration
- Nutritional values
- Allergen declaration LEDA
- Product specification standards
- Product specification methods
- Microbiological limits
- Micro values for contamination
- Organoleptic properties
- CLITRAVI calculations
- Dietary information and quality marks
- Packaging details
- Logistics
- Tracking and Tracing

You can also use specific information such as ingredients, nutritional values, and allergens to print on labels.



The Aptean Product Specification for Food and Beverage user guide contains instructions on how to perform various setups to define the product specification-related data, create product specifications for different classes of items, print the product specification report, and perform product specification analysis.



Setup

Article • 10/24/2024 • 1 min read

The following setups are required.

- [Manage permission sets](#)
- [Setup required before creating product specification templates](#)
- [Using product specification templates](#)
- [Performing general setup and food setup before calculating the product specification and printing the report](#)



Manage permission sets

Article • 10/24/2024 • 3 min read

Permission sets in Business Central define a user's access level to various features and data within this extension.

We provide the following system permission sets:

- Direct
- Indirect

Direct permission sets

Users with this permission set can perform specific actions directly without requiring additional approvals or workflows. These sets include permissions to read, modify, delete, and create data.

The direct permission set ID for this extension is *PRODUCTSPECFDW*.

Indirect permission sets

Users with this permission set can perform specific actions. This is used in conjunction with other permission sets to allow you to perform certain actions. These permissions typically involve additional conditions or approvals before the action can be completed.

The indirect permission set ID for this extension is *PRODUCTSPECBASICFDW*.

User-defined permission sets

In addition to the system permission sets we provide, you can create new permission sets or copy system permission sets and modify or delete access to specific entities according to your requirements. For more information, see [Assign permissions to users and groups](#).

Assign a permission set

1. Select the Search icon , enter **Users**, and then choose the related link.
The **Users** list page opens.
2. Navigate to the username for which you want to assign the permission set and select it.
The **User Card** page opens.
3. On the **User Permission Sets** FastTab, in the **Permission Set** field, enter the valid permission set for this extension.



Product Specification

The associated fields are automatically updated based on the entered value. The user has the necessary permissions to use the features of the Aptean Product Specification extension, ensuring secure and role-based access.



Set up product specification templates

Article • 1/28/2026 • 12 min read

Use a product specification template to classify an item as raw material, semi-product, packaging item, or an end product. However, first, you must create a template.

The topics in this section elaborate on the setup required to create a product specification template.

Define the product specification setup

Use the **Product Specification Setup** page to define the product specification version number, calculation base, unit of measure, meat percentage limits such as collagen and fat allowed in the product.

1. Select the Search icon , enter **Product Specification Setup** and then choose the related link.
The Product Specification Setup page opens.
2. On the **General** FastTab, fill in the fields described in the following table:
Some of the fields have default values when the configuration package is imported. Note that there is a configuration package available with the basic setup up, such as allergens which can be used, but it is also possible to create your own setup.

Field	Description
Initial Version Code	Shows the initial version code of the new product specification
Calculation Base	Select the base upon which you want to perform the product specification calculation from the following options: Production: Product specification calculation is based on the Bill of Material Assembly List: Product specification calculation is based on the assembly list
Product spec. Base UOM	Select the base unit of measure (UOM) to use in the product specification calculation. Kilogram (KG) is the preferred UOM used for product specification. Note that using a single unit of measure prevents incorrect calculations. Assign the unit of measure to each raw material, semi-product, and end product. When you create a new product specification, the application checks if the unit-of-measure conversion exists for the currently-selected item.
Product Specification Report ID	Shows the product specification report ID that prints in the report



Use Active BOM Version	Turn the Use Active BOM Version button on to use the active version of the BOM for the product specification calculation. If you turn off the button, the application uses the standard BOM for the product specification calculation.
QUID% Label Printing Precision	Enter how you want the system to round off the QUID percentage for raw materials, semi products, and end products when printing them on labels. This field is set to <i>0.00</i> by default.
Variant Error Handling	Select whether the system should notify you when a variant in the Bill of Materials (BOMs) is not defined in the product specifications. The available options are: • <i>Error</i>: The system notifies you if the variant in the BOMs does not match any defined product specific variant. • <i>Skip</i>: The system skips the variant mismatch and continues calculating product specifications using the available item-level specification on the following pages: ◦ Product Specifications Raw Materials ◦ Product Specification Raw Materials ◦ Product Specifications Packaging ◦ Product Specification Packaging ◦ Product Specifications Semi Products ◦ Product Specification Semi Products ◦ Product Specifications End Products ◦ Product Specification End Product Card

The fields on the **Numbering** FastTab show the default number series if pre-defined. You can change these values using the edit (pencil) icon on the top of the page.

On the **Limits** FastTab, the values in the fields show the maximum limit for the meat percentage, such as fat or collagen in pork, red meats and poultry that is allowed to be present in the products. Set the limits based on the food law that governs your region. On the **Limits** FastTab, when the **Limit Total Ingredients Manual %** toggle is turned on, the system validates that the total manual % on the **Ingredients** FastTab of the **Product Specification Raw Material** page does not exceed 100%. If the total exceeds 100%, the system prevents the page from being saved and displays a validation message.

3. In the code related fields including **Lim. Fat% Pork Code**, **Lim. Fat% Poultry Code**, select the item code that should be used in the product specification calculation to measure the fat or the collagen percentages.

If the meat percentage for an item exceeds the limits defined here, then the related item code is listed as an ingredient in the product specification declaration. When you execute the **Calculate Food Declaration** action on



a product specification, the system validates the limit percentage fields only if values are configured on the **Product Specification Setup** page.

- If the **Lim. Fat% Pork** field has a value on the **Product Specification Setup** page, the system validates that the limit is specified for the product specification.
- If the **Lim. Fat% Pork** field is left blank on the **Product Specification Setup** page, the system skips this validation.

This conditional validation applies to the following product specification types:

- End products
- Semi-finished products
- Packaging
- Raw materials

Note

The fields on the **Limits** FastTab are compulsory values. You must enter the limits before calculating the product specification, even if you are working with non-meat-related products like cookies.

Define product specification groups

You can group the related fields together in a [product specification template](#) and display them in the product specification report.

For example, create groups, such as Shape, Certification, Organoleptic, or Microbiological Standards. Later, fields like Smell, Flavor, and Color can be grouped under the Organoleptic group in the product specification template for raw materials. The following procedure describes how to perform this activity.

1. Select the Search icon , enter **Product Specification Groups** and then choose the related link.
The **Product Specification Groups** page opens.
2. Select **New**.
3. In the **Code** field, enter the code for the product specification group. For example, enter "Organoleptic".
4. In the **Description** field, enter a brief description for the group code. For example, enter "Organoleptic characteristics".
5. In the **Report Position** field, mention the position at which the group must be placed when printing the product specification report or the label.
6. To set up translations for a group code in the customer's language or another language, select **Related > Group > Translations** on the action bar and select the language code with appropriate text in the description to print in the product specification.



Define product specification options

Define options for the [product specification fields](#) of type **Option**. You must assign the fields to the product specification template to later display them in the product specification report.

Example: For the [product specification field](#) "Taste", create options like "Sweet", "Bitter", "Sour", or "Fruity". Later, you can use these options on the **Product Specification Fields** page in the **Option Code** field.

1. Select the Search icon , enter **Product Specification Options** and then choose the related link.
The **Product Specification Options** page opens.
2. Select **New**.
3. On the **Options** FastTab, in the **Code** field, enter the code for a list of options, for example "Taste". The list of options is shown in the **Option Code** field when you specify a field of field type **Option** on the [Product Specification Fields](#) page.
4. In the **Description** field, enter a brief description of the code.
5. On the **Values** FastTab, in the **Option Value** field, enter the option value, for example, "Sweet" could be an option value for the option "Taste".
6. In the **Option Number** field, enter the position at which the option value must appear in the option list.
7. To set up translations for an option code in the customer's language or another language, select **Option Value > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.

Define product specification fields

Set up fields on the **Product Specification Fields** page to assign to the product specification template and to later display them in the product specification report.

1. Select the Search icon , enter **Product Specification Fields** and then choose the related link.
The **Product Specification Fields** page opens.
2. Select **New**.
3. In the **Code** field, enter a code for the field to use in the product specification template. Create fields to display in the product specification like the length, size, smell, flavor, or color of the product.
4. In the **Description** field, enter a brief description of the field.
5. In the **Field Type**, select from the following options to create values for the fields:
 - **Decimal**: Select **Decimal** to create decimal values for a field to display in the product specification. For example, for the code "length", select the **Decimal** field type to create values for length in decimal numbers.



- **Option:** select **Option** to create values for the field. For example, for the code color, a field that represents the product property, select the field type **Option** to create options like "Red", "Blue", "Green" or "Yellow".
- **Text:** Select **Text** to display specified text for the product in the product specification.
- **Date:** Select **Date** to display date in the product specification.

6. In the **Rounding Precision** field, enter the precision to which the decimal value must be rounded for a product property, like length, when displayed in the product specification. The **Rounding Precision** field is applicable only when the field type is **Decimal**.

For example, if the rounding precision for the "length" field is "1", then "2.4 cm" is rounded to "2 cm" in the product specification.

Similarly, if the rounding precision is "0.1", then "2.4 cm" is retained at "2.4 cm" in the product specification.

11. In the **Option Code** field, select the related option code. Example: For the "color" code, choose option "Red". You can select an option code only if the options are already created on the [Product Specification Options](#) page. Fill in the **Option Code** field only when the field type is **Option**.
12. Select the **Mandatory** checkbox when it is compulsory to display the specified field in the product specification. When you select the **Mandatory** checkbox and do not enter a value for the specified field when [certifying the product specification](#), the application shows an error message. Enter the values for all the fields that are made mandatory before certifying the product specification.
13. To set up translations for a Field code in the customer's language or another language, select **Related > Field > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.

Define Processing Aid

The **Processing Aid** toggle in the production BOM line identifies a BOM component as an auxiliary material that should be excluded from product specification calculations. The toggle is also visible on the **Production BOM Tree** page and displays the correct value at all BOM levels, including nested phantom BOM lines.

Note

The **Processing Aid** toggle is turned off by default for all existing BOM lines and all newly created BOM lines. No existing calculations are affected unless a user explicitly turns on the toggle on a specific BOM line.

When you turn on the **Processing Aid** toggle on a Production BOM line of type **Production BOM** (a phantom BOM reference line), all components in that phantom BOM are excluded from the final end product specification calculation.



Using product specification templates

Article • 4/3/2023 • 5 min read

A product specification template holds product specification-related data such as Organoleptic properties, Microbiological values related to food contamination, and packaging information like packaging dimension and condition.

Link the product specification template to items to classify them as raw material, semi-product, packaging item, or an end product.

The topics in this section elaborate on how to create a product specification template and link it to an item.

Create a product specification template

Use the **Product Specification Templates** page to create product specification templates with different fields. Create separate product specification templates for raw materials, packaging items, semi-products, and end products. You can create templates for specific product codes like cheese or meat. You must always link the product specification template to an item.

1. Select the Search icon , enter **Product Specification Templates** and then choose the related link.
The **Product Specification Templates** list page opens.
2. Select **New**.
The **Product Specification Template** card page opens.
3. In the **Code** field, enter a code for the product specification template. Later, you link the product specification template to an item on the [Item Card page](#) using this code.
4. In the **Description** field, enter a brief description of the code.
5. In the **Specification Class** field, select the product specification template type from the following options:
 - **Packaging**: Creates template for the packaging material
 - **Raw**: Creates template for the packaging material
 - **Semi-Product**: Creates template for the semi-finished product
 - **End Product**: Creates template for the end product
6. In the **Status** field, select the status of the product specification template. Select the status **New** or **Under Development** to edit the template.

On the **Lines** FastTab, select the fields to display in the product specification. You can even group the related fields together under a group name.

11. In the **Type** field, select whether the line type is a **Field** or a **Group**. The first entry must always be a **Group** followed by one or multiple **Fields**.



The **Fields** selected below a **Group** are grouped together under the specified group name in the product specification.

Example: Adding Groups and Fields in a template

Type field	Code field	Field Type field	Rounding Precision field	Mandatory checkbox	Default Value
Group	Organoleptic				
Field	Color	Option		Selected	Yellow
Field	Taste	Option		Selected	Sweet
Field	Smell	Text		Selected	
Group	Shape				
Field	Shape Height (cm)	Decimal	0.1		
Field	Shape Width (cm)	Decimal	0.1		
Field	Shape Length (cm)	Decimal	0.1		

12. In the **Code** field, select the Field or the Group code to print in the product specification. The values in the fields, **Description**, **Field Type**, and **Rounding Precision** also are filled.

13. Select the **Mandatory** checkbox if it is compulsory to enter a value for the specified field or group in the product specification.

14. In the **Default Value** field, enter the option that must display as the default value in the product specification, if needed. However, you can change the default value in the product specification.

For example, the "Taste" Field with the option "Sweet" can be set as the default value to display in the product specification.

Note that you can select the value in the **Default Value** field only when the field type is **Option** and when the options are already defined on the [Product Specification Options](#) page.

15. Now, in the **Status** field, select **Certified** to activate the product specification template. You can link only a certified template to an item.



Link the product specification template to an item

On the **Items** page, link the product specification template to an item to classify the item as raw material, semi product, packaging material, or an end product. You must always link the template to an item.

1. Open the **Items** list page and select an existing item to link the product specification template. Or, create a new item on the **Item card** page and fill in the required fields.
2. On the **Item** FastTab, in the **Specification Template** field under the **Product Specification** group, select the product specification template that you want to link to the item.
3. In the **Base Unit of Measure** field, enter the unit used to measure the item. Or, enter the net weight of the item in the **Net Weight** field on the **Inventory** FastTab. This field is only necessary when the UOM isn't specified as the base unit of measure or item unit of measure.

An error occurs during the product specification calculation if neither the UOM nor the net weight is specified.

4. If the item is a semi-product or an end product, link the related production BOM to the item. Note that the item number and the production BOM number (on the **Replenishment** FastTab) must be the same; otherwise, the product specification cannot be calculated.
5. Close the **Item Card** page.



General setup before creating a product specification

Article • 11/26/2025 • 40 min read

The topics in this section elaborate on the general setup, such as setting up ingredients, ingredient groups, additives, additive categories, allergens, nutritional values, nutritional value categories, testing standards, standard groups, methods, attributes, and texts required to create and calculate semi-product or end product specifications.

Set up ingredient categories

Use the **Ingredient Categories** page to set up ingredient categories. An ingredient category allows to group the related ingredients under a category in the product specification.

Example: You can create an ingredient category called Vegetable and later link it to the ingredients tomato and carrot on the [Ingredients page](#). The ingredients tomato and carrot are shown under the code Vegetable when the product specification is printed.

1. Select the Search icon  , enter **Ingredient Categories** and then choose the related link.
The **Ingredient Categories** page opens.
2. Select **New**.
3. In the **Code** field, enter a code to identify the ingredient category in the product specification. For example, create a category called "HERBS" to later link the ingredients such as "Oregano" and "Basil" on the **Ingredients** page.
4. In the **Description** field, enter a brief description of the ingredient category.
5. To set up translations for an ingredient category code in the customer's language or another language, select **Related > Ingredient Category > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.

Set up ingredients

On the **Ingredients** page, set up all the ingredients possible to have in an item. Example: The basic ingredients of a cake are sugar, wheat flour, eggs, vegetable fat, water, and salt.

Later, link the ingredients to the raw materials in the product specification. The linked ingredients are shown under the ingredient declaration in the product specification report.

1. Select the Search icon  , enter **Ingredients** and then choose the related link.
The **Ingredients** page opens.
2. Select **New**.



3. In the **Code** field, enter a code to identify the ingredient in the product specification.
4. In the **Description** field, enter a brief description of the ingredient.
5. In the **Default Category Code** field, select the category that the ingredient belongs to. For example, for the ingredient tomato or carrot select the ingredient category Vegetables. You can either select the ingredient category from the existing drop-down list or create a new category by clicking **New** for the currently selected ingredient.
6. Select the **Print Description Bold** checkbox to print the ingredient name in boldface in the product specification without printing the actual allergen name present in the ingredient. The food legislation in certain regions may require displaying the ingredient name in bold letters in the declaration if any allergens are present in the ingredient.
7. To set up translations for an ingredient code in the customer's language or another language, select **Related > Ingredient > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.
8. To link one or more allergens to an ingredient, select **Related > Ingredient > Allergens** in the action bar and open the **Ingredient Allergens** page.
9. In the **Allergen Code** field, select the allergen present in the ingredient either from the existing drop-down list or create a new allergen by clicking **New** for the currently selected ingredient.
10. Select the **Declare Behind Ingredient** checkbox to print the allergen name under the ingredient name in the declaration. If you have selected the **Print Description Bold** checkbox on the **Ingredients** page, the **Declare Behind Ingredient** checkbox is selected here by default. However, you can clear the checkbox when there is less space and skip printing the allergen name on the label/declaration, or the allergen name is equal to the ingredient name, e.g., Milk. In this case, you can print the ingredient name in bold letters to indicate that the ingredient has allergens.
11. To enter the countries of origin for an ingredient, select **Related > Ingredient > Countries of Origin** in the action bar and open the **Ingredient Countries of Origin** page.
12. In the **Country/Region of Origin Code** field, select the country/region code that the ingredient originates from.
13. If you make any changes to the allergens linked to an ingredient in a product specification, then you can update the product specification in which this ingredient is present by selecting the **Actions > Functions > Replenish Product Specifications** function in the action bar.

Replenish product specifications by status

You can replenish product specifications for selected ingredients based on specific statuses.

1. Select the **Replenish Product Specifications** action.
The **Select Product Specification Statuses** page opens.
2. Turn on the toggles for the statuses you want to include:
 - Turn on the New toggle to include product specifications with New status.
 - Turn on the Under Development toggle to include product specifications with Under Development status.



- Turn on the Closed toggle to include product specifications with Closed status.
- Turn on the Certified toggle to include product specifications with Certified status.

3. Select **OK**. The system replenishes all product specifications for the selected ingredient(s) with the chosen statuses.

Note

You can select multiple statuses to replenish product specifications across different status categories.

Set up ingredient groups

Use groups to declare ingredients in a product specification within a group or when a single ingredient is added for different purposes or appearances. For example, in a pizza, Salt can be part of the group Sauce and the group Cheese.

1. Select the Search icon , enter **Ingredient Groups** and then choose the related link.
The **Ingredient Groups** page opens.
2. Select **New**.
3. In the **Code** field, enter a code to identify the ingredient group in the product specification.
4. In the **Description** field, enter a brief description of the ingredient group.
5. Select the **QUID group** checkbox to declare the quantity of an ingredient or ingredient group in percentage terms. Example: For the group Cheese, it is required to enter the percentage of the cheese present in the product when declaring the product specification.
6. To set up translations for an ingredient group in the customer's language or another language, select **Related > Ingredient Group > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.

Set up allergens

The food legislation in your region may require you to list all the allergens in a product. Use the **Allergens** page to set up the allergens that can be present in the product. Later, link the allergens to the raw materials or the ingredients to show them in the product specification.

1. Select the Search icon , enter **Allergens** and then choose the related link.
The **Allergens** page opens.
2. Select **New**.
3. In the **Code** field, enter the code to identify the allergen in the product specification.



4. In the **Description** field, enter a brief description of the allergen.
5. In the **GS1 Allergen Code** field, enter the allergen type code according to the GS1 standards and data systems. For example, "AW" is the GS1 code for the allergen Gluten, "ML" is the GS1 code for allergen Lactose.
6. In the **Minimum Quantity (ppm)** field, enter the minimum quantity of the allergen in parts per million that requires the declaration of the allergen in the ingredient declaration if present in the product. The application checks if the allergen quantity in the product exceeds the minimum quantity defined here and shows only the allergens in the ingredient declaration when the minimum quantity exceeds.
7. Select the **Declare In Ingredient Declaration** checkbox to declare the allergen in the ingredient declaration in the product specification.
8. To set up translations for an allergen in the customer's language or another language, select **Related > Allergen > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.
9. To set up allergens for specific customers, select the allergen from the list and then go to **Related > Allergen > Customer Specific Allergens** in the action bar. The **Customer Specific Allergens** page opens.
10. In the **Customer No.** field, select the customer to apply the allergen settings.
11. In the **Minimum Quantity (ppm)** field, enter the minimum quantity of the allergen in parts per million that applies to the selected customer. Later, when you create a product specification for the specified customer, the application considers the minimum allergen quantity defined for this customer and not the standard minimum quantity set on the **Allergens** page.

Set up product specification standards

Define the food testing standards that could be of type physical, chemical, or microbiological to set up for the product specification. The type is used in the product specification report for selection purposes or grouping.

1. Select the Search icon , enter **Product Specification Standards** and then choose the related link. The **Product Specification Standards** page opens.
2. Select **New**.
3. In the **Code** field, enter the code to identify the food testing standard in the product specification. For example, if a microbiological testing standard is used for salmonella detection and identification in food, then enter "Microbiology" in the **Code** field. Likewise, if pH of the food is calculated, then enter "Chemical" in the **Code** field.
4. In the **Description** field, enter a brief description of the food testing standard code.
5. In the **Method** field, select the testing method used to calculate the food standard. Examples include In-house calculation method and Accredited external lab calculation method. You can select the method either from the existing drop-down list or create a new method by clicking **New** for the currently selected standard.
6. In the **Unit of Measure Code** field, select the unit of measure that the test results are expressed in.
7. In the **Type** field, select the food testing standard type from the options, **Chemical**, **Microbiology** and **Physical**.



8. In the **Sorting Order** field, enter the sequence in which the standards must display in the product specification. The sorting happens from the lowest to the highest number. The standard with the lowest sorting order value appears first in the product specification report, followed by the next higher values.
9. To set up translations for the standard in the customer's language or another language, select **Related > Standard > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification report.

Set up product specification standard groups

Use the **Product Specification Standard Groups** page to create standard groups.

Create a standard group to group the related food standards together since the standards assigned to a product specification are often the same for certain item groups and item categories.

You can later assign the standards to the product specification all at once by simply copying the standard group. Using standard groups saves time as it avoids assigning standards separately to each product specification.

1. Select the Search icon , enter **Product Specification Standard Groups** and then choose the related link. The **Product Specification Standard Groups** page opens.
2. Select **New**.
3. In the **Code** field, enter the code to identify the standard group.
4. In the **Description** field, enter a brief description of the standard group.
5. Select **Lines > Standards** in the action bar to open the **Product Specification Standard Group Lines** page. You can include the standards for the currently selected standard group on this page.
6. In the **Standard** field, select the food standard code to include in the currently selected group.
7. In the **Minimum** field, enter what the minimum quantity from the test calculation result can be to comply with the food standard.
8. In the **Maximum** field, enter what the maximum quantity from the test calculation result can be to comply with the food standard. If the result exceeds the maximum value, then the product is not safe for consumption and needs to be blocked.
9. In the **Tolerance** field, enter the tolerance of the measured value. For example, when the measured weight is 510 mg, and the scale can have a deviation of 0.5 mg, then the tolerance is 0.5.
10. In the **Sorting Order** field, enter the sequence in which the standard must display within the standard group in the product specification. The sorting happens from the lowest to the highest number.

Similarly, you can add multiple standard entries to the standard group.



Set up product specification methods

Use the **Product Specification Methods** page to set up the testing methods used to calculate the food standard. Examples include In-house calculation method and Accredited external lab calculation method.

1. Select the Search icon , enter **Product Specification Methods** and then choose the related link.
The **Product Specification Methods** page opens.
2. Select **New**.
3. In the **Code** field, enter the code to identify the testing method.
4. In the **Description** field, enter a brief description of the method used in testing the food standard.
5. To set up translations for the method in the customer's language or another language, select **Related > Method > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.

Set up product specification attributes

Set up the product specification attributes to link to the product specification. The attributes entered for the raw material product specifications are copied to the end product specification when calculating the product specification for the end product.

1. Select the Search icon , enter **Product Specification Attributes** and then choose the related link.
The **Product Specification Attributes** page opens.
2. Select **New**.
3. In the **Attribute Code** field, enter the code to identify the product specification attribute.
4. In the **Description** field, enter a brief description of the product specification attribute like "Raw material is IFS certified" or "Raw material is BRC certified".
5. To set up translations for the attribute in the customer's language or another language, select **Related > Attribute > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.

Set up product specification texts

Use the **Product Specification Texts** page to assign predefined text to a product specification. You can set up predefined texts for different text types like **Packaging information**, **Legislation**, **Storage advice**, **Preparation advice**, **Ingredient declaration**, including others. Use the text type to specify the location of the text in the product specification report. For example, if you enter the text for the type **Nutritional Value** on the **Product Specification**



Texts page, the text entered shows as additional information in the **Nutritional Values** section in the product specification report.

1. Select the Search icon , enter **Product Specification Texts** and then choose the related link.
The **Product Specification Texts** page opens.
2. Select **New**.
3. In the **Code** field, enter the code to identify the predefined text.
4. In the **Description** field, enter a brief description of the text code. Note that the description entered here does not print in the product specification report, on the **Lines** FastTab.
5. In the **Type** field, select the text type from the drop-down list to specify the location of the text in the product specification report. For example, if you select the **Allergens** type, the related text that you enter shows as additional information under the Allergens section in the product specification report.
6. In the **Sorting Order** field, enter the sequence in which the text must display in the report if the texts are of the same type, that is, if there are two entries of the same text type. Suppose there are two text entries of the same text type, you can specify which text must list first in the additional information box in the report.
7. To enter the text, go to **Related > Text > Translations** in the action bar.
8. In the **Language Filter** field, the default language is set based upon the language selected on the **My Settings** page. The text is displayed in default language in the product specification report.
9. In the **Description** field, enter the text that you want to show as additional information in the report based upon the text type.
10. To set up the translation of the text in different languages, select other language codes in the **Language Filter** field and enter the appropriate texts in the **Description** field to print in the product specification report.
11. Go to the **Product Specification Texts** page and view the text that you just entered on the **Lines** FastTab in the **Description** field.

Set up product specification text groups

Use the **Product Specification Text Groups** page to create text groups.

Create a text group to group the related texts together since the texts assigned to a product specification are often the same for certain item groups and item categories.

You can later assign the texts to the product specification all at once by simply copying the text group. Using text groups saves time as it avoids assigning texts separately to each product specification.

1. Select the Search icon , enter **Product Specification Text Groups** and then choose the related link.
The **Product Specification Text Groups** page opens.
2. Select **New**.
3. In the **Code** field, enter the code to identify the text group.



4. In the **Description** field, enter a brief description of the text group.
5. Select **Lines > Texts** in the action bar to open the **Product Specification Text Group Lines** page. You can include the texts for the currently selected text group on this page.
6. In the **Text Code** field, select the text code to include in the currently selected group.

Similarly, you can add multiple text entries to the text group.

Set up product specification pictures

Set up pictures on the **Product Specification Pictures** page. You can later link the picture to a product specification for informational purposes, like the picture of a vendor label for raw material. However, these pictures do not print in the product specification report.

1. Select the Search icon , enter **Product Specification Pictures** and then choose the related link.
The **Product Specification Pictures** page opens.
2. Select **New**.
3. In the **Code** field, enter the code to identify the picture that you want to upload in the FactBox pane.
4. In the **Description** field, enter a brief description for the picture.
5. In the FactBox, click the **Picture** dropdown button and then select Import to insert the required picture.

Set up additive categories

Define additive categories on the **Additive Categories** page to later link the additives to an additive category.

1. Select the Search icon , enter **Additive Categories** and then choose the related link.
The **Additive Categories** page opens.
2. Select **New**.
3. In the **Code** field, enter the code to identify the additive category. Examples include Preservative, Antioxidant, Emulsifier, and Bulking agent.
4. In the **Description** field, enter a brief description of the additive category.
5. In the **Description Plural** field, enter the description of the additive category in plural. Use this field when there is more than one additive with the same category in the product.
6. To set up translations for an additive category in the customer's language or another language, select **Related > Additive Category > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.



Set up additives

Additives are added to food and beverage products to change the characteristics of a product. Examples of additives include Preservatives, Coloring agents, Antioxidants, Emulsifiers, and Thickeners.

Use the **Additives** page to set up the additives, define the E number for the additive, specify if the E number or the Additive description must print by default in the report or label.

You can also set up allergens for additives and define customer-specific additives.

1. Select the Search icon , enter **Additives** and then choose the related link.
The **Additives** page opens.
2. Select **New**.
3. In the **Code** field, enter the E number to identify the additive, for example, E250.
4. The **Code for Report** field populates with the same value that you enter in the **Code** field. This is to make it possible to also enter a lowercase letter, for example, E300a. In the **Code** field, this isn't possible since the letters appear in uppercase.
5. In the **Description** field, enter a brief description of the additive, for example, Sodium Nitrite.
6. In The **Default Category Code** field, select the category that the additive belongs to from the drop-down list.
Example: Preservatives.
7. Select the **Default Print on Declaration** checkbox to print the additive description under the ingredient declaration in the product specification report. This checkbox is selected by default, however you can clear the checkbox.
8. Select the **Default Print E no. Decl.** checkbox to print the E number, example E250, by default under the ingredient declaration in the product specification report. If you clear this checkbox, additive description is printed in the declaration instead of the E number.
9. Select the **Default Print E no. Label** checkbox to print the E number on the label by default. If you clear this checkbox, additive description is printed on the label instead of the E number.
10. Select the **Print Description Bold** checkbox to print the additive on the label in bold letters if an allergen is linked to an additive.
11. To set up translations for an additive in the customer's language or another language, select **Related > Additive > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.
12. To link one or more allergens to an ingredient, select **Related > Additive > Allergens** in the action bar.
13. In the **Allergen Code** field, select the allergen present in the additive either from the existing drop-down list or create a new allergen by clicking **New** for the currently selected additive.
14. Select the **Declare Behind Ingredient** checkbox to print the allergen name under the additive name in the product specification. If you have selected the **Print Description Bold** checkbox on the **Additives** page, the



Declare Behind Ingredient checkbox is selected here by default. You can clear the checkbox when there is less space on the label/declaration and skip printing the allergen name. In this case, you can print the additive name in bold letters to indicate that the additive has allergens.

15. To set up additives for specific customers, select the additive from the list and then go to **Related > Additive > Customer Specific Additives** in the action bar. The **Customer Specific Additive** page opens.
16. In the **Customer No.** field, select the customer to apply the additive settings.
17. In the **Customer Additive Description** field, enter a brief description of the additive.
18. Make the required selections for the **Default Print E no. Label** checkbox, the **Default Print E no. Decl.** checkbox, and the **Default Print on Declaration** checkbox. The application considers these selections when printing the product specification report for the specified customer and not the selections made on the **Additives** page.
19. To enter the countries of origin for an additive, select **Related > Additive > Countries of Origin** in the action bar.
20. In the **Country/Region of Origin Code** field, select the country/region code that the additive originates from.
21. If you make any changes to the additive, then you can update the product specification in which this additive is present by selecting the **Actions > Functions > Replenish Product Specifications** function in the action bar.

The changes could be clearing or selecting the checkbox to print the E number or description or modifying the allergen linked to this additive in a product specification.

Set up nutritional value categories

Define nutritional value categories on the **Nutritional Value Categories** page to later link the nutritional values to a nutritional value category.

Example of categories: Vitamins and Minerals or Nutritional Values

Link values like Calcium, Zinc, Vitamin A, Thiamin, Niacin, or Vitamin E to the Vitamins and Minerals category.

Similarly, link values like Fat, Sugars, or Protein to the Nutritional Values category.

1. Select the Search icon , enter **Nutritional Value Categories** and then choose the related link. The **Nutritional Value Categories** page opens.
2. Select **New**.
3. In the **Code** field, enter the code to identify the nutritional value category.
4. In the **Description** field, enter a brief description of the nutritional value category, like Vitamins or Minerals.
5. To set up translations for a nutritional value in the customer's language or another language, select **Related > Category > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.



Set up nutritional values

The nutrients that can be declared in the product specification include carbohydrates, fat, sugars, proteins, vitamins, and minerals.

Use the **Nutritional Values** page to define nutritional values and their unit of measure, assign a method, and specify which nutritional values must be inserted by default when creating a new product specification.

Also, enter a sorting order for the nutritional values to print in the report, set up the rounding precision, and set up the nutrient reference intake to calculate its percentage per portion of the product or 100 grams.

You can also set up the state of the product on dilution, evaporation, and moisture change.

1. Select the Search icon , enter **Nutritional Values** and then choose the related link.

The **Nutritional Values** page opens.

2. Select **New**.

3. Fill in the fields described in the following table:

Field	Description
Code	Enter the code to identify the nutritional value.
Description	Enter a brief description of the nutritional value.
Value Category Code	Select the nutritional value category that the nutritional value belongs to either from the existing drop-down list or click New and create a new category.
Unit of Measure	Select the unit of measurement that the nutritional value is expressed in either from the existing drop-down list or click New and create a new unit of measurement.
Method Code	Select the method used to calculate the nutrition, for example, the lab method used to calculate the quantity of protein or vitamin in the product.
Default Insert	Select the checkbox to insert the nutritional value by default when creating the product specification. You can change this selection on the Nutritional Values page linked to the product specification.
Sorting Order	Enter the sequence in which the nutritional value must display under the Nutritional Values section in the product specification report.
Default Print	Select the checkbox to print the nutritional value by default under the Nutritional Values section in the product specification report or on the label. You can change this selection on the Nutritional Values page linked to the product specification.



Default Print Per Portion	Select the checkbox to print the nutritional value per portion by default in the product specification or label.
Rounding Precision	Enter the precision to which the decimal value must be rounded for the nutritional value in the product specification, for example 0.01, or 0.1, or 1.
Rounding Direction	The rounding direction works based on the rounding precision value. Select the rounding direction for the nutritional value in the product specification from the following options: Upwards : Select this to round the value upwards to the next higher decimal number. For example, if the nutritional value of a nutrient in the product is 34.56 and the rounding precision is 0.1, then the value is rounded to 34.6. Downwards : Select this to round the value downwards to the next lowest decimal number. For example, if the nutritional value of a nutrient in the product is 34.56 and the rounding precision is 0.1, then the value is rounded to 34.5. Closest : Select this to round the value to the nearest decimal number. For example, if the nutritional value of a nutrient in the product is 34.56 and the rounding precision is 0.1, then the value is rounded to 34.6.
Reference Intake	Enter the recommended nutrient intake for a person in the specified unit of measure. This quantity is used in the product specification to calculate the percentage of the reference intake.
Rounding Precision %RI	Enter the rounding precision for the Reference Intake percentage in the product specification, for example the reference nutrient intake percentages can be rounded to 0.1 or 1.
Rounding Direction %RI	The rounding direction % RI works based on the rounding precision %RI value. Select the rounding direction for the reference nutrient intake percentage in the product specification from the following options: Upwards : Select this to round the percentage upwards to the next highest decimal number. For example, if the reference intake percentage of a nutrient in the product is 34.56 % and the rounding precision %RI is 0.1, then the value is rounded to 34.6%. Downwards : Select this to round the percentage downwards to the next lowest decimal number. For example, if the reference intake percentage of a nutrient in the product is 34.56 % and the rounding precision %RI is 0.1, then the value is rounded to 34.5%. Closest : Select this to round the percentage to the nearest decimal number. For example, if the reference intake percentage of a nutrient in the product is 34.56 % and the rounding precision %RI is 0.1, then the value is rounded to 34.6%.
Default Print %RI Portion	Select the checkbox to print the reference intake percentage per portion of the product.
Default Print %RI 100g	Select the checkbox to print the reference intake percentage per 100g of the product.
Moisture Change	Select how the nutritional value is affected when evaporating or diluting the product during the production process. The options are: Not Affected : Select this if the



nutritional value of the product is not affected **Regular Affected Nutritional Value:** Select this if the nutritional value of the product changes. The value either increases or decreases proportionally on evaporation or dilution of the product. **Moisture:** Select this if the product's water content is affected in the opposite way than the other nutritional values. This option applies to the nutritional value "Moisture".

4. To set up translations for a nutritional value in the customer's language or another language, select **Related > Nutritional Values > Translations** in the action bar and select the language code with appropriate text in the description to print in the product specification.



Product specifications

Article • 10/22/2025 • 1 min read

You can enter the product specifications either manually or calculate automatically, depending on the type. Types of product specifications include:

- Raw materials
- Packaging items
- Semi products
- End products

Enter the product specifications for raw materials and packaging items manually. The semi-product specification or the end-product specification is calculated automatically with the information from the raw material and packaging item specifications based on the associated bill of material for the end product or semi-product.

The **Product Specification** report (Report ID: 70234430) includes the following fields:

- The **Unit of Measure** field value is displayed.
- The **Remarks** field value is included in the report output
- Both **Lot No.** and **Lot No. Profile** field values information are displayed



Production BOMs

Article • 4/3/2023 • 2 min read

Several raw materials and packaging items are used in the end product BOM. To calculate the raw materials, packaging materials, ingredients, allergens, nutritional values, vitamins and minerals, and some dietary information for a semi-product or an end product, you need the bill of material for the semi-products and end product.

A bill of material registers the raw materials and packaging items used and their quantities required to produce a semi-product or an end product.

On the production BOM card, create a BOM for the end product or the semi-product with the necessary BOM line items/child BOMs. The BOM lines are based on the raw materials and the semi-products included in the end product and the packaging material used to pack the product.

You can also include a phantom BOM in the production BOM for the product specification calculation. With a phantom BOM, it's not necessary to have for each production BOM an item.

A product specification is always attached to an item card, and it is needed to calculate the product specification.

Calculating the product specification of an end product or a semi-product always searches for the BOM that is attached to the item card from the related product specification.

On the item card, link each item to the raw material specification template and the child BOM to the semi-product specification template.

Link the end product item to the end product specification template and associate it with the end product BOM you created.



Product specification raw material

Article • 1/28/2026 • 26 min read

You must create a raw material product specification before setting up the end product specification.

Create a raw material product specification

Set up or view product specifications for raw materials.

1. Select the Search icon , enter **Product Specifications Raw Materials** and then choose the related link.
The **Product Specifications Raw Materials** list page opens.
2. Select **New**. The **Product Specification Raw Material** card page opens.
3. In the **Item No.** field, select the item number for which you want to create the product specification. The item list shows only those [items that are linked to the template](#) with specification class **Raw**.
4. In the **Specification No.** field, the product specification number displays based upon the number series set for the raw material on the **Product Specification Setup** page. However, enter the same item number as the specification number.
5. In the **Version No.** field, view the product specification version number. This version number is the same as the one entered in the **Initial Version Code** field on the [Product Specification Setup](#) page.
6. In the **Starting Date** field, enter the date from which the product specification must be active.
7. In the **Status** field, select the status of the product specification.
 - **New:** A newly created product specification. You can make changes to the specification when the status is **New**.
 - **Certified:** Select this status after entering all the required values and when the product specification is ready to use. It is not possible to make changes to the specification once certified and when it is in use. The product specification should be in the **Certified** status when you run the **Calculate food declaration** function for semi-product and end product specifications.
 - **Under Development:** Select this status when the product specification creation is still in progress. You can make changes to the specification in this status.
 - **Closed:** Select this status when the product specification is not in use.
8. In the **Nutritional Values Per** field, select the quantity and the unit of measure for which the nutritional values are calculated in the product specification. The options are:
 - **100 Gram:** Select this to calculate the nutritional value for 100 grams of the product.
 - **100 Milliliter:** Select this to calculate the nutritional value for 100 milliliters of the product.
9. In the **Portion Size** field, enter the portion size of the product to calculate the nutritional values in the product specification.



10. On the **Dietary** FastTab, enter the information in the fields to:

- Specify food quality marks such as EKO, BIO, Kosher, and Halal that guarantee certain food composition or food-producing methods.
- Specify if a product is suitable to use for vegetarians, vegans, coeliac, and people with lactose intolerance. You can filter product specification lines by the **Specification Template Code** field before executing the **Refresh Lines** action

11. In the **Specification Template Code** field, select a template to filter product specification lines before executing the **Refresh Lines** action.

The **Change Status** action enables you to change the status of selected specification lines. You can select any of the following status options:

- *New*
- *Released*
- *Under Development*
- *Close*

This action is used when you need to change the status from *Certified* to *Under Development* before executing the **Refresh Lines** action. The **Refresh Lines** action is only available when the status is set to *New* or *Under Development*. After refreshing the lines, you can use the **Change Status** action to set the status back to *Certified*.

If one of the initial raw materials of the end products does not satisfy the requirements of the diet, the end product itself will also not satisfy the requirements of the product.

20. On the **Product Specification Lines** FastTab, enter the information in the product specification field or group.

These fields and groups are set up on the [Product Specification Template](#) card page, and the template is linked to the item.

Enter product specification-related data such as Organoleptic properties, Microbiological values in food contamination, or packaging information like packaging dimension and condition.

21. In the **Value** field, enter the information based on the [specified fields and the field types](#).

Example: Entries in the **Value** field

Description field	Field Type field	Value field	Rounding Precision field	Mandatory checkbox
Organoleptic				
Color	Option	Yellow		Selected
Taste	Option	Sweet		Selected



Smell	Text	Toasted and Nutty		Selected
Shape				
Shape Height (cm)	Decimal	10.0	0.1	
Shape Width (cm)	Decimal	15.5	0.1	
Shape Length (cm)	Decimal	20.5	0.1	

22. On the **Tracking and Tracing** FastTab and the **Logistics** FastTab, the values of the corresponding fields from the **Item** card page are displayed, and you cannot change these values.

Include comments to print in the report

1. To add general comments in the product specification report, select **Related > Specification > Comments > General** on the action bar of the **Product Specification Raw Material** page. The **Edit – Comment Sheet** page opens.
2. In the **Comment** field, enter one or more comments to include in the product specification report. The general comments apply to all vendors and are printed in the **Specification Comments** section after the **General Information** section in the product specification report.
3. To add vendor-specific comments in the product specification report, select **Related > Specification > Comments > Vendor** in the action bar. The **Edit – Comment Sheet** page opens.
4. In the **No.** field, select the vendor for which you want to print the comment in the product specification report.
5. In the **Comment** field, enter one or more comments to include in the product specification report for the specified vendor.

The vendor-specific comments will print in the **Vendor Comments** section in the product specification report.

Assign standards to the product specification

1. To assign the food testing standards to the raw material product specification, **Related > Specification > Standards** in the action bar on the **Product Specification Raw Material** page.
2. The [Product Specification Standards](#) page opens.
3. In the **Standard** field, select the food standard applicable to the current raw material product specification and enter the values in the **Minimum**, **Maximum**, and **Tolerance** fields.
4. Select the **Locked** checkbox to lock the record when the **Copy From Standard Groups** function is used to add standards from the predefined standard group to this list. Any unlocked records will be deleted.
5. Similarly, add the remaining food standards to the raw material as required.



However, to save time, you can assign the standards to the product specification all at once by simply copying the predefined standard group.

6. On the action bar, select **Copy From Standard Groups** to open the [Product Specification Standards Groups](#) page.
7. Select the standard group that you want to copy and click **OK**.
8. A dialog box prompts for confirmation before deleting any existing unlocked lines for the standards. Select **Yes** to retain the existing standards or **No** to delete them.

The standards of the predefined standard group are copied to the current product specification.

Assign texts to the product specification

1. To assign predefined texts to the raw material product specification, select **Related > Specification > Texts** in the action bar on the **Product Specification Raw Material** page.
2. The [Product Specification Texts](#) page opens.
3. In the **Code** field, select the predefined text code to print in the product specification report or a label.
4. Select the **Locked** checkbox to lock the record when the **Copy From Text Group** function is used to add texts from the predefined text group to this list. Any unlocked records will be deleted.
5. Similarly, add the remaining texts to the raw material as required.

However, to save time, you can assign the texts to the product specification all at once by simply copying the predefined text group.

6. On the action bar, select **Copy From Text Group** to open the [Product Specification Text Groups](#) page.
7. Select the text group that you want to copy and click **OK**.
8. A dialog box prompts for confirmation before deleting any current unlocked lines for the texts. Select **Yes** to retain the current texts or **No** to delete them.

The texts of the predefined text group are copied to the current product specification.

Assign countries of origin to the raw material

1. To assign the countries of origin to the raw material product specification, select **Related > Specification > Countries of Origin** in the action bar on the **Product Specification Raw Material** page. The **Product Specification Countries of Origin** page opens.
2. In the **Country/Region of Origin Code** field, select the country/region code from which the raw material originates.
3. Select the **Print on Declaration** checkbox to print the country of origin in the product specification report/label.



The countries of origin assigned to the raw material product specification are copied to the semi-product specification and the end product specification during the product specification calculation.

Assign attributes to the product specification

1. To assign the attributes to the raw material product specification, select **Related > Specification > Attributes** in the action bar on the **Product Specification Raw Material** page. The [Product Specification Attributes](#) page opens.
2. In the **Attribute Code** field, select the attribute for the raw material to print in the product specification report.
3. Select the **Print on Declaration** checkbox to print the attribute description in the product specification report.

The attributes assigned to the raw material product specifications are copied to the end product specification when calculating the product specification for the semi-product or the end product.

Set up label information

You can create the label strings for allergens and ingredients in the product specification and use them if the Labeling extension is available.

1. To create label strings, select **Related > Specification > Label Information** on the action bar Of the **Product Specification Raw Material** page. The **Prod. Spec. Label Information** page opens.
2. In the **Language Code** field, select the language in which the label string should be created. If no translation is set up in the specified language for an ingredient or allergen, the default language is used.
3. In the **Type** field, select the label string type from the following:
 - **Ingredient:** Create the label string for an ingredient or an additive. Based on the **Default Print E No. Label** checkbox settings on the [Additives page](#), either the E number code or the description is used in the label string.
 - **Allergen:** Create the label string for an allergen.
4. Select **Calculate Label Information** in the action bar to calculate and generate the label strings. The generated label strings are shown in the **Label Information** box for each line.

You can also generate or update the label strings when you certify the product specification or recalculate using the **Calculate Food Declaration** function.

The label strings are used if the Labeling extension is available.



Assign ingredients and additives to the product specification

1. To assign the ingredients present in the raw material, select **Related > Food > Ingredients** on the action bar Of the **Product Specification Raw Material** page. The **Product Specification Ingredients** page opens.
2. In the **Type** field, select an ingredient or an additive to assign to the raw material product specification.
3. In the **Code** field, select the ingredient code or the additive code present in the raw material.
4. In the **Presence** field, mention if the ingredient or additive presence is equal to, greater than, or less than the percentage specified on the line.
5. In the **Manual %** field, enter the percentage of the ingredient or the additive in the raw material.
6. In the **Printed %** field, view the ingredient percentage or the additive percentage to print in the ingredient declaration in the product specification report. This field displays the Calculated % or the Manual %. You cannot enter values in the **Printed %** field manually. For the semi-product and the end product specifications, this field displays the value from the **Calculated %** field, and when the **Manual %** is filled, it shows that value.
7. In the **Category Code**, select or view the category that the ingredient belongs to.
8. In the **Total Per Category** field, view the percentage of the ingredient or the additive for that category. For example, if two ingredients in a product belong to the category DAIRY (Butter 10% and Cheese 5%), then the total presence of the dairy in the product is 15%. You can view the calculated percentages in an end product specification.
9. Select the **QUID** checkbox to show the percentage (%) of the ingredient quantity next to the ingredient in the ingredient declaration section of the report. The **QUID** checkbox applies only to an ingredient line and not to an additive.
10. Select the **QUID Category** checkbox to show the percentage (%) of the ingredient category in the ingredient declaration. Example: 100% Vegetables (90% Potato, 10% Mushrooms)
The **QUID Category** checkbox applies only to an ingredient line and not to an additive.
11. If required, change the **Print E No. Label** checkbox selection to specify whether to print the E number of the additive on the label. If you clear the **Print E No. Label** checkbox, the additive description is printed instead of the E number on the label. The default selection for the **Print E No. Label** checkbox is set up on the [Additives page](#).
The **Print E No. Label** checkbox applies only to an additive line and not to an ingredient.
12. If required, change the **Print E No. Declaration** checkbox selection to specify whether to print the E number of the additive under the ingredient declaration in the product specification report. The default selection for the **Print E No. Declaration** checkbox is set up on the **Additives** page.
The **Print E No. Declaration** checkbox applies only to an additive line and not to an ingredient.
13. If required, change the **Print Additive on Declaration** checkbox selection to specify whether to print the additive description under the ingredient declaration in the product specification report. The default selection for the **Print Additive on Declaration** checkbox is set up on the **Additives** page.
The **Print Additive on Declaration** checkbox applies only to an additive line and not to an ingredient.



Ingredient Groups in the product specification

You can modify or assign an ingredient group to the ingredients.

Example: For the end product, Pizza, Cheese is one of the raw materials. The Cheese itself contains ingredients like salt, flavoring agents, or some preservatives.

So, you can create an ingredient group for Cheese to group all its ingredients.

When creating the raw material specification for Cheese, you can link the ingredients present in Cheese to the Cheese group.

1. Select **Related > Line > Ingredient Groups** on the action bar of the **Product Specification Raw Material** page.
2. On the **Product Specification Ingredient Groups** page, enter the values in the fields for the ingredient group for this raw material.
3. In the **Ingredient Group Code** field, select the ingredient group code. Ingredients in the product belonging to this group are shown under the ingredient declaration in the **Product Specification Report**.
4. Select the **QUID group** checkbox to show the percentage (%) of the ingredient group in the ingredient declaration.
5. Enter the values in the other required fields.
6. The **Product Specification Report** includes the **Country of Origin Summary** section that displays the total percentage contribution of ingredients by country, calculated using ingredient category presence and weight distribution logic.

Assign allergens to the product specification

The allergens are assigned automatically to the product specification based on the ingredients and the additives linked to the raw material.

1. To modify the allergens assigned to the raw material, select **Related > Food > Allergens** on the action bar of the **Product Specification Raw Material** page. The **Product Specification Allergens** page opens.
2. The **Calculated PPM** field displays the quantity (parts per million) of the allergen present in the product. This value in this field is shown only for an end product or a semi product specification. When this quantity exceeds the minimum quantity set on the **Allergens** page, then the **Presence** field displays the "+" symbol in the product specification report for the end product or semi-product.
3. For the selected allergen, enter the quantity (parts per million) of the allergen present in the product in the **Manual PPM** field. When this quantity exceeds the minimum quantity set on the **Allergens** page, then the **Presence** field displays the "+" symbol in the product specification report for the end product or semi-product.
4. The **Used PPM** field displays the quantity (parts per million) of the allergen present in the product when the product specification is calculated. If this value is less than the minimum quantity set on the **Allergens** page,



then the allergen is not printed in the report since it's within the safety limit.

5. Based on the allergen present in the linked ingredient or the additive, the **Presence** field displays the existence of the allergen in the product with a "+" symbol (present) or a "-" symbol (not present). If required, you can modify the selection in this field.
6. Based on the allergen present in the linked ingredient or the additive, the **Presence LEDA** field displays the presence of the allergen in the product according to the LEDA method: P (present), A (Absent), U (unknown), or C (may contain).
 - When you change the **Presence** field to ~, the **Presence LEDA** field automatically update to C.
7. The **Product Specification Report** includes the **Allergen Summary** section that lists allergens present in the recipe and allergens that may contain traces, based on the allergen indicators defined for the product.

Nutritional values in the product specification

The nutritional values are assigned automatically to the product specification based on the setup on the **Nutritional Values** page. You can view or edit the nutritional values linked to the raw material.

1. Select **Related > Food > Nutritional Values** on the action bar Of the **Product Specification Raw Material** page. The **Product Specification Nutritional Values** page opens.
2. In the **Manual Value** field, enter the nutritional value present in the specified weight (100 grams or 100 milliliters) of the raw material. The nutritional value is expressed in the nutrient's unit of measures, like kcal, kJ, milligrams, or micrograms.
3. Enter the other fields as necessary.

Based on the nutritional values entered for the raw material, the nutritional values are computed, for instance, for each portion size or reference intake size of the end product and the semi product during the product specification calculation.

CLITRAVI values in the product specification

CLITRAVI: CLITRAVI is the Liaison Centre for the Meat Processing Industries, a European branch organization for the meat processing industry. The most important goal of CLITRAVI is to defend and improve the legal aspects of the branch.

Legislation: European legislation has defined that producing companies should document the meat percentage. This percentage to declare depends on the connective tissue and the fat level of the animal. There are several ways to define this percentage.

CLITRAVI method: De CLITRAVI method is the most often used method in order to determine the meat percentage. The status of this calculation is determined by a decision of the "labeling Expert Working group EU", who described



this method as an important contribution to a harmonized identification. Of the category ingredients which can be defined.

The Aptean Product Specification application provides the functionality to declare the meat percentages in the product based on the CLITRAVI method.

1. To enter the meat percentages for the raw material based on the CLITRAVI calculation method, select **Related > Food > Clitravi Values** on the action bar Of the **Product Specification Raw Material** page. The **Product Specification Clitravi** page opens.
2. In the fields on the **Poultry** FastTab, enter the meat percentage, such as for collagen, protein, or fat present in the raw material.
3. Similarly, enter the values on the **Red Meat** FastTab and **Pork** FastTab.

When the product specification is calculated for the end product or the semi product containing this raw material, the application compares the CLITRAVI values entered here with the meat percentage limits set under the **Limits** FastTab on the **Product Specification Setup** page.

If the CLITRAVI values exceed the set limits for any meat percentages, those meat components are printed under the ingredient declaration in the product specification report.

Calculate Food Declaration

Use the **Calculate Food Declaration** function to calculate the product specification of an end product or a semi-product based on the items in the Production BOM and their related product specifications (raw materials, packaging items, or semi-finished product).

Depending on the **Active BOM Version** button setting on the [Product Specification Setup page](#), the food declaration is calculated either with the active BOM version or the standard BOM.

And, depending on the **Calculation Base** field setting on the [Product Specification Setup page](#), it is also possible to calculate the product specification with an Assembly BOM instead of a Production BOM.

The **Calculate Food Declaration** function calculates the quantity and the percentage presence of the ingredients, ingredient groups, additives, allergens, nutritional values, dietary information, vitamins, and minerals in an end product or a semi-product.

You can also calculate the food declaration for raw materials.

1. To calculate the food declaration, click the **Calculate Food Declaration** action in the action bar on the **Product Specification Raw Material** page, or select **Actions > Functions > Calculate Food Declaration**.

You can calculate the food declaration only when the product specification is in the **Certified** status.



Copying from the product specification

If a product specification you are creating is similar to an existing product specification, you can copy it from this existing product specification.

1. To copy from the existing specification, select **Actions > Functions > Copy From Specification** on the action bar of the **Product Specification Raw Material** page. The **Copy From Specification** dialog window opens.
2. In the **Specification No.** field, select the specification number of the existing product specification from which you want to copy information to the current specification.
3. On the **Options** FastTab, select the information that you want to copy.
4. Enter the values in the other required fields and click **OK**.

Create new versions of product specifications

It is possible to have various versions of a product specification. You can create a new version of a product specification in advance by entering a future start date. The active version is always the one with the most recent past date and that which is certified.

Use the new versions of product specifications when the production BOM has changed or when there is a change in the packaging details.

1. To create a new version, select **Actions > Functions > Create New Version** on the action bar of the **Product Specification Raw Material** page. The **Create New Product Specification Version** dialog window opens.
2. In the **New Version Code Implementation** field, select one of the following options:
 - *Manual Version Code*: In the **New Version Code** field, manually enter the version code for the new product specification.
 - *Next Minor Version Code*: The system automatically updates the new version code by incrementing the existing version by *+0.1*.
 - *Next Major Version Code*: The system automatically updates the new version code by incrementing the existing version by *+1*.
3. In the **New Version Code** field, enter the code for the new version of the product specification.
4. In the **Starting Date** field, set a unique starting date to ensure that only one product specification version exists per starting date.
5. Enter the values in the other required fields and click **OK**.



On the **Product Specifications Raw Materials** list page, you can notice that two versions are created in two different lines for the same specification number.

Refreshing template lines in the product specification

When any changes are made to a template used in a product specification, use the **Refresh Lines** action to update the product specification with the newly created modifications in the template.

To update the template lines in the product specification, select **Actions > Functions > Refresh Lines** on the action bar.

You can update the modified template lines in the product specification only when the product specification is in the **New** or **Under Development** status.

Create a vendor product specification

Create a vendor-specific product specification when there are deviations from the average or standard product specification.

However, the vendor-specific product specification is not used for any calculation purposes.

This option is available on every type of product specification, except for the semi-product.

Print the product specification report

When you finish creating a product specification, you can print the product specification report to send to a customer.

The Print function is available on every type of product specification.

Before printing the report, make sure to have the:

- product specifications for all raw materials and packaging items
- production item with linked BOM
- product specification semi-product/end product with the certified status
- product specification report ID defined on the Product Specification Setup
- To print the product specification report, select **Actions > Functions > Print** on the action bar of the **Product Specification Raw Material** page. The **Product Specification** dialog window opens.
- In the **Printer** field, select the printer that will be used to print the report.
- In the **Language** field, select that language in which you want to print the report.



- Turn on the **Log Interaction** toggle to record all the interactions for a specified customer on the **Interaction Log Entries** page. The entry shows the date on which the report was sent to a specific customer, any attachments sent, the salesperson code, customer name, and other related information. The **Log Interaction** button is available only if an interaction template is selected in the **Product Specification** field on the **Interaction Template Setup** page.
- In the **Customer** field, select the customer to print the product specification with a customer-specific setup of additives and allergens. If a customer has a specific description of an additive/allergens, it can be printed in the product specification report. This field is applicable only when the **Log Interaction** toggle is turned on.
- Use the toggles on the **Print Chapter** FastTab, **Options for Ingredients (CoO)** FastTab, and the **Options for Nutritional Values** FastTab to specify the information that needs to be printed in the product specification report.
- Enter the values in the other required fields and print the report.

Creating an interaction log entry

If necessary, create an interaction log entry for a specified contact when printing a product specification report.

You must set up the interaction template.

1. Select  in the upper-right corner of the page. Enter **Interaction Template Setup** in the search box and then select the related link. The **Interaction Template Setup** page opens.
2. On the **Quality** FastTab, in the **Product Specification** field, select the interaction template code to use when logging the customer interactions.

The interaction template is created to record the customer interactions for the product specification report.



Product specification packaging

Article • 4/3/2023 • 6 min read

In accordance with the environmental legislation of your region, you can calculate and print the packaging declaration for the end products.

You must create the product specification for packaging items before setting up the end product specification or the semi product specification.

The steps to create a product specification for raw materials and packaging items are similar. Refer to the [Product Specification Raw Material](#) topic for complete information on creating a packaging product specification.

Set up packaging materials

You must set up packaging materials such as cardboard or plastic to use it later in the product specification packaging.

1. Select the Search icon , enter **Packaging Materials** and then choose the related link.
The **Packaging Materials** page opens.
2. Select **New**.
3. In the **Code** field, enter the packaging material code, such as cardboard or plastic used in the packaging of the products.
4. In the **Description** field, enter a description for the packaging material.
5. To set up translations for material code in the customer's language or another language, select **Related > Material > Translations** on the action bar and select the language code with appropriate text in the description to print in the product specification.

Create a product specification for packaging

Follow these steps to create the product specification for packaging items before setting up the end product specification or the semi product specification.

1. Select the Search icon , enter **Product Specifications Packaging** and then choose the related link.
The **Product Specifications Packaging** list page opens.
2. Select **New**. The **Product Specification Packaging** card page opens.
3. In the **Item No.** field, select the packaging item number for which you want to create the product specification.
The item list shows only those items that are linked to the template with specification class **Packaging**.
4. On the **Classification** FastTab, in the **Used As** field, select the type of usage for the packaging item.



- **Primary:** materials that are directly in contact with the product
- **Secondary or Tertiary:** packaging meant for holding together or protection during transport of an already packed product

Refer to the [Product Specification Raw Material](#) card page to fill the values in the remaining fields.

Assign packaging materials to the product specification

View the materials of which the packaging item is composed.

1. Select **Related > Packaging > Materials** in the action bar on the **Product Specification Packaging** page. The **Product Specification Materials** page opens.
2. In the **Material Code** field, select the code of the material used in product packaging.
3. The **Used As** field displays the usage type that you select on the **Classification** FastTab of the **Product Specification Packaging** card page.
4. In the **Presence** field, mention if the material thickness is equal to, greater than, or less than the values specified in the line.
5. In the **Thickness** field, enter the thickness of the packaging material. You can decide the unit of measure, like cm or mm, to express the thickness of the material. Ensure to use the same unit for the thickness throughout where applicable.
6. In the **Manual Weight** field, enter the weight of the material in grams used in the packaging of one product.
7. The **Calculated Weight** field shows the computed weight (the manual weight times the single quantity of the end product) of the packaging material. The value in this field displays in the end product specification.
8. The **Used Weight** field shows the manual weight entered. In the end product specification, the automatically calculated weight is shown in this field.
9. In the **Recycled %** field, enter the percentage of the packaging material that is recycled.

The recycled % entered on the raw material product specifications are copied to the end product specification when calculating the product specification for the semi-product or end product.



Product specification semi product

Article • 10/22/2025 • 2 min read

Creating semi-product specifications is similar to creating the raw material specification and end product specification. Refer to the [Product Specification Raw Material](#) topic and the [Product Specification End Product](#) topic for complete information on creating a product specification for a semi-product.

Semi product specification calculation not allowed

You can specify if this semi-product specification should be recalculated when calculating a related end product specification.

Turn on the **Calculation Not Allowed** toggle to manually adjust the product specification values and not want the semi-product specification to be recalculated.

The **Calculation Not Allowed** toggle is on the **General** FastTab of the **Product Specification Semi Product** page.

In the **Specification Template Code** field, select a template to filter product specification lines before executing the **Refresh Lines** action.

The **Change Status** action enables you to change the status of selected specification lines. You can select any of the following status options:

- *New*
- *Released*
- *Under Development*
- *Close*

Note

When executing the calculate report for the product specification, you can choose whether to include or exclude attributes from all sub-levels.

- When the **Exclude Attributes from Sub-level** toggle is turned off, all attributes from all sub-levels are copied to the product specification.
- When the **Exclude Attributes from Sub-level** toggle is turned on, attributes from sub-levels are not copied to the product specification.



Product specification end product

Article • 10/22/2025 • 5 min read

The end product specification is calculated automatically using the underlying product specifications for raw materials and packaging items based on the associated production BOM.

The following are calculated in the end product specification: ingredients, ingredient groups, allergens, nutritional values, dietary information, vitamins, and minerals.

Add the other information manually.

When the application calculates the end product specification, the underlying product specifications for the semi-products are also calculated automatically, including the recycled material % of the packaging product specification.

The steps to create an end product specification is similar to creating the raw material specification. Refer to the [Product Specification Raw Material](#) topic for complete information on creating an end product specification.

Create a product specification for an end product

1. Select the Search icon , enter **Product Specifications End Products** and then choose the related link.
The **Product Specifications End Products** list page opens.
2. Select **New**.
The **Product Specification End Product** card page opens.
3. In the **Item No.** field, select the end product item number for which you want to create the product specification.
The item list shows only those items that are linked to the template with specification class **End Product**.
4. On the **Product Specification Lines** FastTab, enter the information in the product specification field or group.
These fields and groups are set up on the **Product Specification Template** card page, and the template is linked to the item.

Refer to the [Product Specification Raw Material](#) card page for more details.

5. In the **Status** field, select the **Certified** status to activate the product specification.
6. Select the **Calculate Food Declaration** function in the action bar.
7. The function calculates the quantity and the percentage presence of the ingredients, ingredient groups, additives, allergens, nutritional values, dietary information, vitamins, and minerals in the end product based on the items in the production BOM and their related product specifications (raw materials, packaging items, or semi-finished product).
8. In the **Specification Template Code** field, select a template to filter product specification lines before executing the **Refresh Lines** action.
The **Change Status** action enables you to change the status of selected specification lines. You can select any of the following status options:



- *New*
- *Released*
- *Under Development*
- *Close* Note that the product specification lines are not copied from the raw material specification.

View the ingredient and the additive calculation for the end product on the **Product Specification Ingredients** page (select **Related** > **Food** > **Ingredients** on the action bar). The **Manual** % field shows the value zero; however, you can change the value if necessary. The **Calculated** % field shows the ingredient or additive percentage present in the end product based on the end product specification calculation. The other settings like QUID, printing the E Number in the declaration, or the countries of origin are copied from the raw material specification. However, you can always change these selections.

Make sure to change the status of the product specification to **New** or **Under Development** to edit the product specification.

13. On the action bar, select **Related** > **Food** to view the calculations of the **Allergens, Nutritional Values, and Clitravi Values** in the end product.
14. Select **Related** > **Food** > **Materials** to view the packaging material calculations for the end product based on the underlying product specification packaging.
15. Select **Related** > **Food** > **Packaging** to view the packaging item used for the end product. The packaging items are initially copied from the underlying BOM.
16. Select **Related** > **Item** > **Production BOM Tree** to view the BOM tree structure of the end product.

This tree displays the BOM in a product structure from the highest level to the lowest level. It shows the BOM number, BOM status, product specification, and product specification status, whether certified or not, for all the items.

You can modify the **Scrap** % field value on the BOM tree page for the items from the production or assembly order.

Refer to the [Product Specification Raw Material](#) topic for information on **Actions** > **Functions** menu tasks and to [print the report](#).

Refer to the [Set up label information](#) topic to create label strings for ingredients and allergens in the product specification. You can use the label strings when the Labelling extension is installed.

Note

When executing the calculate report for the product specification, you can choose whether to include or exclude attributes from all sub-levels.

- When the **Exclude Attributes from Sub-level** toggle is turned off, all attributes from all sub-levels are copied to the product specification.



- When the **Exclude Attributes from Sub-level** toggle is turned on, attributes from sub-levels are not copied to the product specification.



Product specification analysis

Article • 1/28/2026 • 6 min read

With the product specification analysis, it is possible to create simple analysis views in a matrix view.

You can create a matrix view to see all information from the product specification for a group of items. For example, compare the allergens or the nutritional values for a group of items with the matrix views.

Set up product specification analysis

Before creating an analysis view, you must set up the base tables for analysis and define the product specification analysis setup.

1. Select the Search icon , enter **Product Specification Analysis Setup** and then choose the related link.
The **Product Specification Analysis Setup** page opens.

2. Select **New**.

3. In the **Analysis Option** field, select an option to create analysis views.

- **Ingredients & Additives**
- **Allergens**
- **Nutrition**
- **Materials**
- **Dietary**
- **Tracking & Tracing**
- **Logistics**

4. In the **Data Type** field, select the data type from which the information should be retrieved:

- **Fields:** Information including nutritional values, standards, dietary intake is stored as fields directly in the "Product Specification" table.
- **Records:** Information about ingredients, additives, allergens, and materials are stored as records in separate tables.

5. In the **Source Table** field, select the source table number.

When the data type is **Records**, select the specific source table for that option, e.g., the table "Ingredient" or "Allergen".

When the data type is **Fields**, select the table "Product Specification" as the source table.



15. In the **Data Source Table** field, select the actual table where the information is stored, e.g., the table "Prod. Spec. Ingredient" or "Prod. Spec. Allergen". This field is applicable only when the data type is **Records**.
16. In **Data Source Value Field**, select the field value to use in the analysis. E.g., the **Printed %** field value for ingredients and additives, the **Presence** field value for allergens, and the **Used Weight** field value for materials. This field is applicable only when the data type is **Records**.
17. In **Data Source Code Field**, select the field code to use in the analysis view. The code specifies which field value must be shown in the **Row Description** field on the **Edit - Product Specification Analysis** page. This field is applicable only when the data type is **Records**.
18. In the **No. of Decimals** field, enter the number of decimals that must be shown for the value specified in **Data Source Value Field**. This field is applicable only for the decimal field type.
19. Similarly, create multiple lines for different analysis options, as necessary
20. For a line with the **Fields** data type, it is possible to set up a field range. Select **Field Range Lines** in the action bar.
21. On the **Edit - Product Specification Analysis Range** page, enter the range of fields in the **From Field No.** and the **To Field No.** fields to show in the analysis.

View the analysis matrix

View the analysis matrix for a group of items from the product specification.

1. Select the Search icon , enter **Product Specification Analysis Setup** and then choose the related link. The **Product Specification Analysis Setup** page opens.
2. In the **Show Lines as** field, select an option to view the analysis matrix.
 - **Ingredients & Additives**
 - **Allergens**
 - **Nutrition**
 - **Materials**
 - **Dietary**
 - **Tracking & Tracing**
 - **Logistics**
3. In the **Calculation Date**, select the date for which you want to view the analysis matrix considering the starting dates of the product specifications.
4. Turn on the **Calculation Necessary** toggle or select the **Perform Calculation** action on the action bar to recalculate the product specification before running the **Show Matrix** action. Turn off the **Calculation Necessary** toggle to use the last known data before recalculating the specifications.



5. Use the fields on the **Filters** FastTab to filter the records based on the item class, item category, item number, item variant code and line filter. The analysis is performed only for those records based on the filter criteria set.
6. Select the **Show Matrix** action on the action bar to calculate and show the analysis matrix for the group of items based on the filters set.
7. Select the **Export All Items to Excel** action on the action bar to export all product specification items matrix to an excel file.

The **Edit - Product Specification Analysis** page displays the analysis matrix for the filtered items based on the fields, records, and base tables set on the **Product Specification Analysis Setup** page.



Product specification translations

Article • 9/24/2025 • 1 min read

You can use the **Product Specification Translations** page to maintain translations of product specification fields in multiple languages. This ensures that the translated values are available for printing on the product specification report, in a manner consistent with how item descriptions can be defined in different languages.

To access the **Product Specification Translations** page, on the action bar of the following pages, select **Related > Specifications > Translations**.

- Product Specifications Raw Materials
- Product Specification Raw Material
- Product Specifications Semi Products
- Product Specification Semi Product
- Product Specifications End Products
- Product Specification End Product
- Product Specifications Packaging
- Product Specification Packaging

To configure the product specification translations, follow these steps.

1. On the **Product Specification Translations** page, in **Field No.** field, select the number of the field within the product specification table.
2. In the **Language Code** field, select the code of the language into which you want to translate the selected field value.
3. In the **Translated Value** field, enter the translated version of the selected field value. The translated version of the selected field is configured.

