



# Material Substitution and Alternate Material

Replace the material or use an alternative material to ensure smooth manufacturing operations.

## Key Features Include:

- Create and manage a list of alternate or substitute materials for a raw material at the master screen. Example: Jaggery (alternate/substitute material) for sugar (original raw material in formula).
- Define multiple substitute or alternate materials for a stock item.
- Define factor conversion and ratio of the alternate or substitute item to ensure the consistency remains the same as the original raw material used in the formula.
- Select multiple substitute materials to replace the original item and update the formula.
- Update formula(s) with the substitute material for the stock item in a single action.
- Revision control for formula(s) while replacing the material.
- Replace materials with automatic resizing of formula or material quantity:
- ✓ Resize the quantities of all ingredients to accommodate the substitute/alternate, and the formula size remains constant using the 'maintain formula size' utility.

- ✓ Scale the formula size where the quantity of substitute/alternate material is resized using the 'maintain item quantity' utility.
- Identify material shortages and replace them with suitable alternative materials during production.
- Select multiple alternate materials to replace the original item during batch production.

## Why Material Substitution and Alternate Material?

- Ensure uninterrupted production by replacing materials during shortages or supply chain disruptions.
- Save time and effort with streamlined formula updates, automatic resizing of formulas or material quantities, and revision control.
- Adapt to market changes by quickly replacing the materials without production delays and meet compliance requirements.
- Eliminate manual tracking and substitutions with centralized management of alternates and substitutes.

Material substitution and alternate materials within the eWorkplace Apps Process Manufacturing Suite are designed for manufacturing companies to respond to sudden market shifts or material shortages effectively. When market demands change suddenly or the use of raw materials is restricted due to legal requirements, material substitution enables the replacement of raw materials across formulas/recipes in a single step. The alternate material capability enables the use of the most suitable alternative of the original raw material used in the formulation at production, which can be utilized in scenarios such as material shortages, cost-effective alternatives, or temporary material unavailability. These capabilities smooth the production operations and simplify the process of updating formulas.