

# Da Vinci Smart Manufacturing

## BRD S04.01.04 Master Data Material Maintenance Additives

Version	Created/Modified by	Description	Date
1.0	Sahana Badal	S04.01.04 First Draft	11/07/2025
2.0	Sahana Badal	S04.01.04 Second Draft	23/07/2025

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## 1. Additives List Screen

This is designed to provide a comprehensive and user-friendly interface for managing Additives, including both active and inactive materials. **This data is populated from an external system and are loaded initially in inactive state.** Users can filter, search, and sort materials based on various parameters like Material Type and Material Status.

### Header Section

- **Title:** "MM : Additives"
- **Stats Section:** Total count of Active | Inactive
- **Search Bar:** Tooltip text: Search by Material ID / Material Name
- **Filters:**
  - Material Type -
    - Multi-select Dropdown
  - All Material Types related to Additives
  - Status -
    - Multiselect Dropdown:
    - Values: Active | Inactive
  - Clear Filter - This will clear all the applied filters
  - All Filter drop downs should be sorted alphabetically / numerically

### Material List Section

Users can view the list of all Additives, including both active and inactive materials. This data is populated from an external system and are loaded initially in inactive state.

Users can filter, search, and sort materials based on various parameters like Material Type and Material Status. The table will have the following columns:

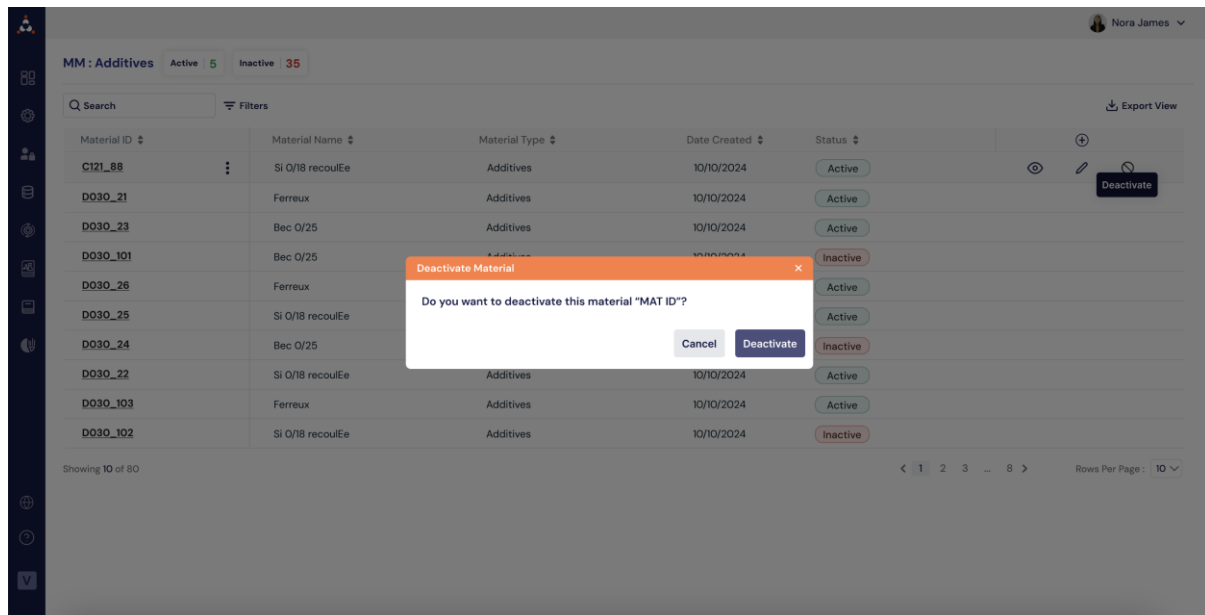
**Table Default Sorting :** Latest Modified first

- ☐ **Material ID:**
  - **Material ID**
  - Sorting: Yes
  - Frozen - Yes
- ☐ **Material Name:**
  - **Material Name corresponding to the Material ID**
  - Sorting: Yes
  - Frozen: No
- ☐ **Material Type:**
  - Material Type, the material ID belongs to
  - Sorting: Yes
  - Frozen: No
- ☐ **Created At:** **CR-VD-5347**
  - **Date and time Material was created as per ERP system**
  - Sorting: Yes

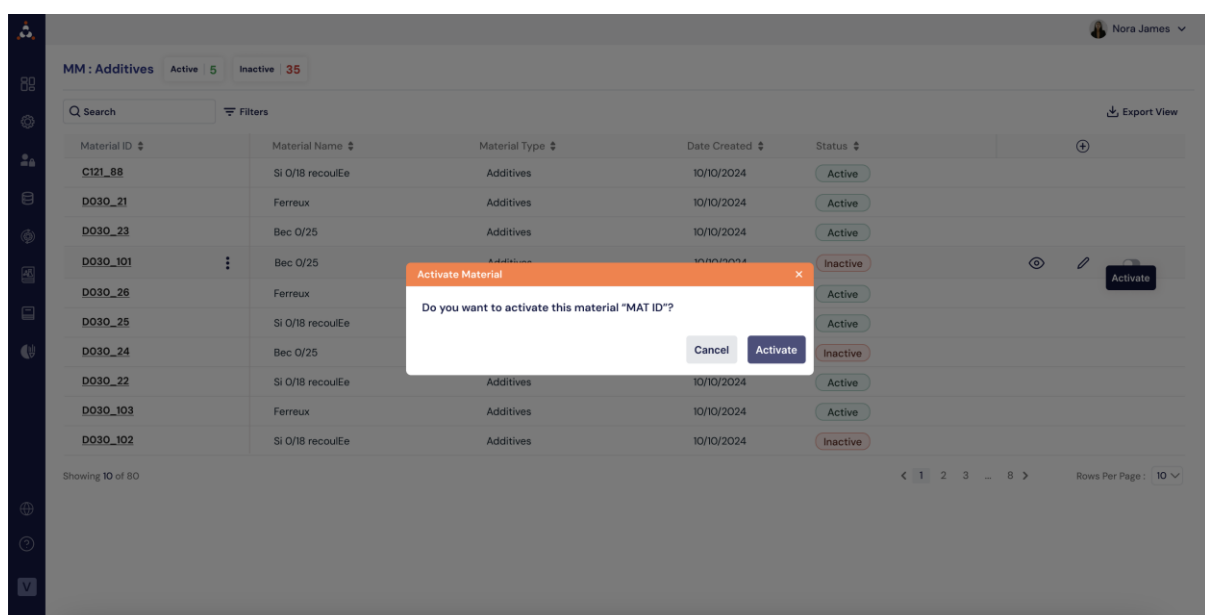
- Frozen: No
- ☐ **Created By** [CR-VD-5347](#)
  - Auto-populated as “System“
  - Sorting: Yes
  - Frozen: No
- ☐ **Modified At** [CR-VD-5347](#)
  - Last record modified Date and time
  - Sorting: Yes
  - Frozen – No
- ☐ **Modified By** [CR-VD-5347](#)
  - User ID | First Name Last Name of user who last modified the record
  - Sorting: Yes
  - Frozen – No
- ☐ **Status:** Indicates the status of the record (Draft, New, Linked, Rejected).
  - **Active** –Material that are activated in the system.
  - **Inactive** – Material imported from the ERP are initially marked as inactive or have been deactivated within the system.
  - Sorting: Yes
  - Frozen: No

**Note:** Horizontal scroll is required to be able to navigate through all columns and visualize all data but always respecting the frozen columns.

- **Action Buttons:** Depending on the status, allows users to edit or view the record. Only users with Create/Edit permissions on the module can activate, edit, or deactivate materials.
  - **Active:**
    - View – Record details can be viewed in non-editable mode
    - Edit - Details can be edited in the Material Information and Specification tab.
    - Deactivate - [CR-VD-4481](#) Users can deactivate an active material, which moves it to an inactive state. Deactivate the material after a confirmation message
      - “Do you want to deactivate this material “MAT ID”?”



- **Inactive: Material Information tab details have not been saved**
  - View – Record details can be viewed in non-editable mode
  - Add Details – Additional details can be included in the Material Information and Specification tab.
- **Inactive: Material Information tab details have been saved**
  - View – Record details can be viewed in non-editable mode
  - Edit - Details can be edited in the Material Information and Specification tab.
  - Activate - **CR-VD-4481** Users with the appropriate permissions can activate an inactive material by adding additional information and specifying the material's elemental specifications. Activate the material after a confirmation message
    - “Do you want to activate this material “MAT ID”?”



- **Pagination Controls:** Navigation buttons to browse through multiple pages of records, if applicable (for more than 10 records).
- Rows Per page : Default 10, Dropdown values: 10, 20, 30, 40, 50

**Export Function:** The export function must extract ALL the information of the columns available on list screen even they are not displayed.

## CR-VD-5348

Material ID	Material Name	Material Type	Created At	Created By	Modified At	Modified By	Status
D030_24	Bec 0/25	Additives	04/06/2025   06:27 AM	Sahana   Sahana Badal			Active
D030_103	Ferreux	Additives	04/06/2025   06:27 AM	Sahana   Sahana Badal	04/06/2025   06:27 AM	Sahana   Sahana Badal	Active
D030_108	Bec 0/25	Additives	04/06/2025   06:27 AM	Sahana   Sahana Badal	04/06/2025   06:27 AM	Sahana   Sahana Badal	Inactive
D030_23	Bec 0/25	Additives	04/06/2025   06:27 AM	Sahana   Sahana Badal	04/06/2025   06:27 AM	Sahana   Sahana Badal	Active
XXXX_186	Cible Haut Alu	Additives	04/06/2025   06:27 AM	Sahana   Sahana Badal			Inactive

XXXX_1 98	Cible DopE P	Additives	04/06/2025   06:27 AM	Sahana   Sahana Badal	04/06/2025   06:27 AM		Inactive
D030_2 2	Si 0/18 recoulEe	Additives	04/06/2025   06:27 AM	Sahana   Sahana Badal			Inactive

**Exported File Name: “Additives\_DD-MM-YYYY”**

**Customize Columns:** Users can enable or disable all columns based on their preference. Only the enabled columns will be visible in the list. Columns marked as ‘frozen’ will be enabled by default and cannot be modified.

The screenshot displays the 'MM: Additives' management interface. At the top, there's a header with 'MM: Additives', 'Active 5', and 'Inactive 35'. Below this is a search bar and a 'Filters' section. The main table lists materials with columns: Material ID, Material Name, Material Type, Created At, and Status. The status column shows 'Active' in green and 'Inactive' in red. A 'Customize Columns' sidebar is open on the right, allowing users to toggle the visibility of various columns. The sidebar includes a search bar and a list of columns with toggle switches: Material ID, Material Name, Material Type, Status, Created At, Created By, Modified At, and Modified By. The 'Material ID' column is currently disabled, while all others are enabled.

Material ID	Material Name	Material Type	Created At	Status
C121_88	Si Q/18 recoulEe	Additives	10/10/2024	Active
D030_21	Ferreux	Additives	10/10/2024	Active
D030_23	Bec Q/25	Additives	10/10/2024	Active
D030_101	Bec Q/25	Additives	10/10/2024	Inactive
D030_26	Ferreux	Additives	10/10/2024	Active
D030_25	Si Q/18 recoulEe	Additives	10/10/2024	Active
D030_24	Bec Q/25	Additives	10/10/2024	Inactive
D030_22	Si Q/18 recoulEe	Additives	10/10/2024	Active
D030_103	Ferreux	Additives	10/10/2024	Active
D030_102	Si Q/18 recoulEe	Additives	10/10/2024	Inactive

MM: Additives Active 5 Inactive 35

Search Filters

Material ID	Material Name	Material Type	Created At	Status
C121_88	Si O/18 recoulee	Additives	10/10/2024	Act
D030_21	Ferreux	Additives	10/10/2024	Act
D030_23	Bec O/25	Additives	10/10/2024	Act
D030_101	Bec O/25	Additives	10/10/2024	Inac
D030_26	Ferreux	Additives	10/10/2024	Act
D030_25	Si O/18 recoulee	Additives	10/10/2024	Act
D030_24	Bec O/25	Additives	10/10/2024	Inac
D030_22	Si O/18 recoulee	Additives	10/10/2024	Act
D030_103	Ferreux	Additives	10/10/2024	Act
D030_102	Si O/18 recoulee	Additives	10/10/2024	Inac

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FILTERS Clear X

Material Type Select

Status Select

## 2. Add Material Details

This screen will allow users to input and manage records, organised into two Tabs: Material Information and Material Specification. Mandatory fields will be marked with an asterisk (\*). Below is a detailed layout incorporating the requirements.

**Header:** Back Icon | **D030\_24** | **Bec 0/25** (Material ID | Material Name)

### Material Information Tab

#### CR-VD-4658

- **Scenario 1: ERP ID exists, but no Ops ID**
  - Material ID = ERP Material ID
  - Material Name
  - Material Type
  - Status
  - Date Created
  - Material Description
- **Scenario 2: ERP ID and Ops ID exist with a one-to-one mapping**
  - Material ID = ERP Material ID = OPS Material ID
  - Material Name
  - Material Type
  - Status
  - Date Created
  - Material Description
- **Scenario 3: ERP ID and Ops ID exist and are different (i.e., no one-to-one mapping)**
  - Material ID = (Concatenation of ERP ID and Ops ID)
  - Material Name
  - ERP Commercial Material ID



- ERP Commercial Material Name
- Ops Technical Material ID
- Material Type
- Status
- Date Created
- Material Description

**Additional Information** - These details are to be captured here, they are the following

- **Effective Date\***:
  - User selects the date from a calendar selector. The system shall allow users to capture a set of values with an effective date, which can be in the past, present, or future.
  - Mandatory - Yes
  - Default value - Current date
  - Field Type - Calendar picker
  - Validation - No
- **Unit Weight\***
  - User inputs the unit weight value
  - Mandatory - Yes
  - Default value - None
  - Field Type - User input
  - Validation - Numeric 2 decimal values. Max allowed 99,999,999.99
  - Units - Kg
- **Actual Cost\***
  - User inputs the value
  - Mandatory - Yes
  - Default value - None
  - Field Type - User input
  - Validation - Numeric 2 decimal values. Max allowed 99,999,999.99
  - Units - USD (currency from Plant Config)
- **Addition Group**
  - User inputs the value
  - Mandatory - No
  - Default value - None
  - Field Type - User input
  - Validation - Numeric 2 decimal values. Max allowed 99,999,999.99
  - Units - \$ (currency from Plant Config)
- **Density**
  - User inputs the value
  - Mandatory - No
  - Default value - None
  - Field Type - User input
  - Validation - Numeric 4 decimal values. Max allowed 99,999,999.9999
  - Units - Depending on Unit System setup on Plant config (g/l metric system or lbm/ft^3)

- **Standard Cost\***
  - User inputs the value
  - Mandatory - Yes
  - Default value - None
  - Field Type - User input
  - Validation - Numeric 2 decimal values. Max allowed 99,999,999.99
  - Units - USD (currency from Plant Config)
- **CO2 Contributor**
  - User inputs the value
  - Mandatory - No
  - Default value - None
  - Field Type - User input
  - Validation - Numeric 2 decimal values. 8 integers + decimal point + 2 decimals, 0 allowed, space not allowed
- **kWh Melting**
  - User inputs the value
  - Mandatory - No
  - Default value - None
  - Field Type - User input
  - Validation - Numeric 2 decimal values. 8 integers + decimal point + 2 decimals, 0 allowed, space not allowed
  - Units - kWh/t

### **Action Buttons**

- **Save & Continue:**
  - Upon saving the details, the user is redirected to the **Material Specification** tab.
  - On the **list screen**:
    - Since the first tab's details have been entered,
    - An **Edit** option will appear in the **action menu** for the corresponding item.
    - Since Material Specification has default 0 values, User can now activate the material.
- **Cancel:** Cancels the current operation and returns to the list screen

SB Sahana Badal

← D030\_24 | Bec Q/25

Material Information

**Basic Information**

Material ID D030_24	Material Name Bec Q/25	ERP Commercial Material ID D030	ERP Commercial Material Name METAL B VENTE	ERP ACC Material ID D030
ERP ACC Material Name METAL B	Ops Technical Material ID 108	Material Type Additives	Status Active	Date Created 02/07/2024

Material Description  
Bec Q/25

**Additional Information**

Effective Date* 14/07/2025	Unit Weight* Enter Value t	Actual Cost* Enter Value USD	Addition Group Enter Value	Density Enter Value g/cm³
Standard Cost* Enter Value USD	CO2 Contributor Enter Value	kWh Melting Enter Value kWh/t		

Material Specification

Cancel
Save & Continue

## Material Specification Tab

- The Material Specification tab is not dependent on the completion or saving of the Material Information tab.
- Users can navigate to and save data under the Material Specification tab without saving the Material Information tab.
- The material cannot be activated unless all mandatory fields in the Material Information tab are filled in and saved successfully.
- Users can edit material specifications, including chemistry, physical and size specifications.
- Under this section “Low”, “Aim” and “High” values for various elements are captured. The elements are mapped to a particular material type.
- In Edit mode update of element values inserts a new set of records with the date.
- For any given date only one set can exist, the older values will be overwritten for an existing date. Thus, storing historical data will help generate reports with appropriate data for all dates.
- Historical data can be viewed by downloading the Excel file using the download option in View mode
- The list of elements for Chemical and Physical can be seen in the design provided.
- Material Specification tab is independent from Material Information tab and available to be saved at any point of time.
- **Each Chemistry element will have the following :** Fe, Si, C, Mn, Cr, Ni, Mo, V, Ti, Al, W, Nb, Co, Zr, B, P, S, Cu, Sn, Pb, Mg, Ca, Zn, As, Sb, Se, Te, Re, Ta, Hf, Sc, Y, La, Ce, Nd, Pr, Sm, Gd, Dy, Er, Be, Li, Na, K, Sr, Ga, Ge, Cd, In, Hg, Pt, Au
  - Low -
    - Editable and pre-populated with default value.
    - Default – 0 **CR-VD-4655**
    - Mandatory: No
    - Field Validation -

- only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
    - It has to be lower than Aim and High
  - Aim
    - Editable and pre-populated with default value.
    - Default – 0 [CR-VD-4655](#)
    - Mandatory: No
    - Field Validation -
      - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
      - The sum of all *Aim* values represents a percentage-based split of elements in the material. While it is **not required to total exactly 100%**, it **must not exceed 100%**. Total aim value will be shown next to section heading. A validation message that “Total value of elements should be less than 100%” will be displayed [CR-VD-3979](#)

- It has to be higher than Low and lower than High
  - High
    - Editable and pre-populated with default value.
    - Default – 0 [CR-VD-4655](#)
    - Mandatory: No
    - Field Validation -
      - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
      - It has to be higher than Low and Aim
  - **Each Physical element will have the following:** Ash, Moisture, Volatiles.
    - Low -
      - Editable and pre-populated with default value.
      - Mandatory - No

- Default – 0 **CR-VD-4655**
- Field Validation -
  - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
  - It has to be lower than Aim and High
- Aim
  - Editable and pre-populated with default value.
  - Mandatory - No
  - Default – 0 **CR-VD-4655**
  - Field Validation -
    - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
    - The sum of all *Aim* values represents a percentage-based split of elements in the material. While it is **not required to total exactly 100%**, it **must not exceed 100%**. Total aim value will be shown next to section heading. A validation message that “Total value of elements should be less than 100%” will be displayed **CR-VD-3979**

- It has to be higher than Low and lower than High
- High
  - Editable and pre-populated with default value.
  - Mandatory - No
  - Default – 0 **CR-VD-4655**
  - Field Validation -
    - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
    - It has to be higher than Low and Aim
- **Action Buttons**
  - **Save**

- Upon saving the details, the user is redirected to the **List** page.
- On the **list screen**:
  - Since both tab's details have been entered,
  - An **Edit** option will appear in the **action menu** for the corresponding item.
  - User can now activate the material
- **Cancel**: Cancels the current operation and returns to the list screen

### 3. Edit Material Details

- This screen will allow users to input and manage records, organized into two Tabs: Material Information and Material Specification. Mandatory fields will be

marked with an asterisk (\*). Below is a detailed layout incorporating the requirements.

- **Header:** Back Icon | **D030\_24** | **Bec 0/25** (Material ID | Material Name)

Material ID	Material Name	Material Type	Created At	Status
C121_88	Si Q/18 recoulEe	Additives	10/10/2024	Active
D030_21	Ferreux	Additives	10/10/2024	Active
D030_23	Bec 0/25	Additives	10/10/2024	Active
D030_101	Bec 0/25	Additives	10/10/2024	Inactive
D030_26	Ferreux	Additives	10/10/2024	Active
D030_25	Si Q/18 recoulEe	Additives	10/10/2024	Active
D030_24	Bec 0/25	Additives	10/10/2024	Inactive
D030_22	Si Q/18 recoulEe	Additives	10/10/2024	Active
D030_103	Ferreux	Additives	10/10/2024	Active
D030_102	Si Q/18 recoulEe	Additives	10/10/2024	Inactive

## Material Information Tab

### CR-VD-4658

- **Scenario 1: ERP ID exists, but no Ops ID**
  - Material ID = ERP Material ID
  - Material Name
  - Material Type
  - Status
  - Date Created
  - Material Description
- **Scenario 2: ERP ID and Ops ID exist with a one-to-one mapping**
  - Material ID = ERP Material ID = OPS Material ID
  - Material Name
  - Material Type
  - Status
  - Date Created
  - Material Description
- **Scenario 3: ERP ID and Ops ID exist and are different (i.e., no one-to-one mapping)**
  - Material ID = (Concatenation of ERP ID and Ops ID)
  - Material Name
  - ERP Commercial Material ID
  - ERP Commercial Material Name
  - Ops Technical Material ID
  - Material Type
  - Status

- Date Created
- Material Description

#### Additional Information -

- When viewed in edit mode, only the current values of fields (based on effective date) will be displayed. If a recently updated value is older than the current value, it will be saved. However, these values will not be displayed in edit mode but can be viewed by downloading the Excel history.
- Only one value can exist for a given effective date. In Edit mode, if a record with the same effective date already exists in the system, the user will receive a warning and be asked if they want to proceed and overwrite the existing details.
- Historical and future data can be viewed by downloading the Excel file using the download option in View mode.
  - **Effective Date\***:
    - Editable and pre-populated with the existing value.
    - Default value - Current date
    - Mandatory: Yes
  - **Unit Weight\***
    - Editable and pre-populated with the existing value.
    - Default value - None
    - Mandatory: Yes
  - **Actual Cost\***
    - Editable and pre-populated with the existing value.
    - Default value - None
    - Mandatory: Yes
  - **Addition Group**
    - Editable and pre-populated with the existing value.
    - Default value - None
    - Mandatory: No
  - **Density**
    - Editable and pre-populated with the existing value.
    - Default value - None
    - Mandatory: No
  - **Standard Cost\***
    - Editable and pre-populated with the existing value.
    - Default value - None
    - Mandatory: Yes
  - **CO2 Contributor**
    - Editable and pre-populated with the existing value.
    - Default value - None
    - Mandatory: No
  - **kWh Melting**
    - Editable and pre-populated with the existing value.
    - Default value - None
    - Mandatory: No



- **Action Buttons**

- **Save & Continue:**

- Upon saving the details, the user is redirected to the **Material Specification** tab.
    - On the **list screen**:
      - An **Edit** option will appear in the **action menu** for the corresponding item.
      - Since Material Specification has default 0 values, User can now activate the material.

- **Cancel:** Cancels the current operation and returns to the list screen

## Material Specification Tab

- Users can edit material specifications, including chemistry, physical and size specifications.
- Under this section “Low”, “Aim” and “High” values for various elements are captured. The elements are mapped to a particular material type.
- In Edit mode update of element values inserts a new set of records with the date.
- For any given date only one set can exist, the older values will be overwritten for an existing date. Thus, storing historical data will help generate reports with appropriate data for all dates.
- Historical data can be viewed by downloading the Excel file using the download option in View mode
- The list of elements for Chemical and Physical can be seen in the design provided.
- **Each Chemistry element will have the following**
  - Low -
    - Editable and pre-populated with the existing value.
    - Default – 0 **CR-VD-4655**
    - Mandatory: No

- Field Validation -
    - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
    - It has to be lower than Aim and High
  - Aim
    - Editable and pre-populated with the existing value.
    - Default – 0 **CR-VD-4655**
    - Mandatory: No
    - Field Validation -
      - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
      - The sum of all *Aim* values represents a percentage-based split of elements in the material. While it is **not required to total exactly 100%**, it **must not exceed 100%**. Total aim value will be shown next to section heading. A validation message that “Total value of elements should be less than 100%” will be displayed **CR-VD-3979**
      - It has to be higher than Low and lower than High
  - High
    - Editable and pre-populated with the existing value.
    - Default – 0 **CR-VD-4655**
    - Mandatory: No
    - Field Validation -
      - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
      - It has to be higher than Low and Aim
- **Each Physical element will have the following**
  - Low -
    - Editable and pre-populated with the existing value.
    - Mandatory - No
    - Default – 0 **CR-VD-4655**
    - Field Validation -
      - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
      - It has to be lower than Aim and High
  - Aim
    - Editable and pre-populated with the existing value.
    - Mandatory - No
    - Default – 0 **CR-VD-4655**
    - Field Validation -
      - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
      - The sum of all *Aim* values represents a percentage-based split of elements in the material. While it is **not required to total exactly 100%**, it **must not exceed 100%**. Total aim

value will be shown next to section heading. A validation message that “Total value of elements should be less than 100%” will be displayed **CR-VD-3979**

- It has to be higher than Low and lower than High
- High
  - Editable and pre-populated with the existing value.
  - Mandatory - No
  - Default – 0 **CR-VD-4655**
  - Field Validation -
    - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
    - It has to be higher than Low and Aim
- **Action Buttons**
  - **Save**
    - Upon saving the details, the user is redirected to the **List** page.
    - On the **list screen**:
      - Since both tab’s details have been entered,
      - An **Edit** option will appear in the **action menu** for the corresponding item.
      - User can now activate the material
  - **Cancel**: Cancels the current operation and returns to the list screen

## 4. View Material

This screen will allow users to input and manage records, organised into two Tabs: Material Information and Material Specification. Mandatory fields will be marked with an asterisk (\*). Below is a detailed layout incorporating the requirements.

**Header:** Back Icon | **D030\_24** | **Bec 0/25** ((Material ID | Material Name) | **Edit Icon:** Allows users to switch from view mode to edit mode to update the record.

MM: Additives Active 5 Inactive 35

Q Search Filters Export View

Material ID	Material Name	Material Type	Created At	Status	
C121_88	Si O/18 recoulee	Additives	10/10/2024	Active	View
D030_21	Ferreux	Additives	10/10/2024	Active	
D030_23	Bec O/25	Additives	10/10/2024	Active	
D030_101	Bec O/25	Additives	10/10/2024	Inactive	
D030_26	Ferreux	Additives	10/10/2024	Active	
D030_25	Si O/18 recoulee	Additives	10/10/2024	Active	
D030_24	Bec O/25	Additives	10/10/2024	Inactive	
D030_22	Si O/18 recoulee	Additives	10/10/2024	Active	
D030_103	Ferreux	Additives	10/10/2024	Active	
D030_102	Si O/18 recoulee	Additives	10/10/2024	Inactive	

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## Material Information Tab

### CR-VD-4658

- Scenario 1: ERP ID exists, but no Ops ID**
  - Material ID = ERP Material ID
  - Material Name
  - Material Type
  - Status
  - Date Created
  - Material Description
- Scenario 2: ERP ID and Ops ID exist with a one-to-one mapping**
  - Material ID = ERP Material ID = OPS Material ID
  - Material Name
  - Material Type
  - Status
  - Date Created
  - Material Description
- Scenario 3: ERP ID and Ops ID exist and are different (i.e., no one-to-one mapping)**
  - Material ID = (Concatenation of ERP ID and Ops ID)
  - Material Name
  - ERP Commercial Material ID
  - ERP Commercial Material Name
  - Ops Technical Material ID
  - Material Type
  - Status
  - Date Created
  - Material Description

**Additional Information** - These details are to be captured here, they are the following

- **Effective Date:**
  - **Export Icon:**
    - Historical and future data can be viewed by downloading the CSV file using the download option.
    - The tooltip should read “Download CSV”. [CR-VD-4482](#)
    - Downloads the record in CSV format.
    - The file must include the following headers and display the values as the following example: [CR-VD-5348](#)
    - Exported File Name: “**Additives\_Additional\_Information\_DD-MM-YYYY**”

### CR-VD-4489

Effective Date	Material ID	Material Name	Material Type	Unit Weight	Actual Cost	Addition Group	Density	Standard Cost	CO2 Contributor	kWh Melting	Create At	Created By	Modified At	Modified By
09/30/2025	D001	Ferrux	Additive	1.00t	2.00USD	3m	4.00g/cm <sup>3</sup>	5.00USD	6/t	7.00kWh	09/07/2025   07:37 AM	pchakwate   pchakwate   Pradnya Chakwate	09/07/2025   07:37 AM	pchakwate   pchakwate   Pradnya Chakwate

- **Unit Weight**
- **Actual Cost**
- **Addition Group**
- **Density**
- **Standard Cost**
- **CO2 Contributor**
- **kWh Melting**

## Material Specification Tab

Chemistry, Physical of various elements will be available in read only mode.

### Each Chemistry element will have the following

- Low
- Aim
- High

### Each Physical element will have the following

- Low
- Aim
- High

### Export Specification

- Historical data can be viewed by downloading the Excel file using the download option.
- The tooltip should read “Download CSV”. [CR-VD-4482](#)
- Downloads the record in CSV format.
- The file must include the following headers and display the values as the following example: [CR-VD-5348](#)
- Exported File Name: “**Additives\_MaterialSpecification\_DD-MM-YYYY**”

### [CR-VD-4489](#)

Element (in %)	Element Group	L	A	H	Created At				Modified At	Modified By
Al	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
As	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Au	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Be	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
B	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Ca	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Cd	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Ce	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Co	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Cr	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Cu	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
C	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Dy	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Er	CHE	0	0	0	09/07/2025   07:37 AM				09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate

Fe	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Ga	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Gd	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Ge	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Hf	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Hg	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
In	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
K	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
La	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Li	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Mg	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Mn	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Mo	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Na	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Nb	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate



Nd	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Ni	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Pb	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Pr	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Pt	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
P	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Re	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Sb	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Sc	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Se	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Si	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Sm	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Sn	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Sr	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
S	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate

Ta	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Te	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Ti	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
V	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
W	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Y	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Zn	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Zr	CHE	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Ash	PHY	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Moistur e	PHY	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate
Volatile s	PHY	0	0	0	09/07/2025   07:37 AM			09/07/2025   07:37 AM	pchakwate   Pradnya Chakwate

← C910\_9 | SIO2DM

Material Information

Material Specification

[View Change History](#)

### Chemistry Elements

Elements (in %)	Low	Aim	High
Al	O	O	O
As	O	O	O
Au	O	O	O
Be	O	O	O
B	O	O	O
Ca	O	O	O
Cd	O	O	O
Ce	O	O	O
Co	O	O	O

Elements (in %)	Low	Aim	High
Hf	O	O	O
Hg	O	O	O
In	O	O	O
K	O	O	O
La	O	O	O
Li	O	O	O
Mg	O	O	O
Mn	O	O	O
Mo	O	O	O

Elements (in %)	Low	Aim	High
Sb	O	O	O
Sc	O	O	O
Se	O	O	O
Si	O	O	O
Sm	O	O	O
Sn	O	O	O
Sr	O	O	O
S	O	O	O
Ta	O	O	O

## View Change History

This button opens a modal or section showing a chronological list of all changes made to the record, including:

- Timestamp of change
- Field(s) modified
- Previous and updated values
- Name of the user who made the change
- **Export Icon - Downloads the records in CSV format, the tooltip should read “Download CSV”. [CR-VD-4482](#)**
- **Export Filename - “Additives\_ChangeHistory\_DD-MM-YYYY” [CR-VD-5348](#)**

Specification Change History			Old			New		
Date	Username	Element	Low	Aim	High	Low	Aim	High
05/01/2025 09:00 AM	JSmithOperator	Al	0	0	0	1.9000	2.0000	2.4500
04/01/2025 09:00 AM	superadmin	Ca	0	0	0	0	1.0000	0
		Al	0	0	0	0	0	0
02/01/2025 07:00 AM	superadmin	Coarse Particles (>45um)	0	0	0	0	0	2.4500
01/01/2025 09:00 AM	superadmin	Cl	0	0	0	0	1.0000	0