

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

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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:**
 - **Date Material was created as per ERP system**
 - Sorting: Yes

- Frozen: No
- Created By**
 - Auto-populated as “System”
 - Sorting: Yes
 - Frozen: No
- Modified At**
 - Last record modified Date and time
 - Sorting: Yes
 - Frozen – No
- Modified By**
 - 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 - 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 - 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.

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	04/06/20 25 06:27 AM		Inactive
D030_2 2	Si 0/18 recouEe	Additives	04/06/2025 06:27 AM	Sahana Sahana Badal			Inactive

Exported File Name: “Additives_DDMMYY”

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 shows a list of materials under the heading "MM : Additives". The list includes columns for Material ID, Material Name, Material Type, Date Created, and Status. A sidebar titled "Customize Columns" allows users to enable or disable these columns. The "Material ID" column is marked as frozen and is always visible. Other columns like "Material Name", "Material Type", "Status", "Created At", "Modified At", and "Modified By" are shown with toggle switches to indicate if they are active or inactive.

Material ID	Material Name	Material Type	Date Created	Status
C121_88	Si 0/18 recouEe	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 0/18 recouEe	Additives	10/10/2024	Active
D030_24	Bec 0/25	Additives	10/10/2024	Inactive
D030_22	Si 0/18 recouEe	Additives	10/10/2024	Active
D030_103	Ferreux	Additives	10/10/2024	Active
D030_102	Si 0/18 recouEe	Additives	10/10/2024	Inactive

The screenshot shows a table of material records with columns: Material ID, Material Name, Material Type, Date Created, and Status. A sidebar on the right contains filters for Material Type (Select) and Status (Select). The table includes rows for C121_88, D030_21, D030_23, D030_101, D030_26, D030_25, D030_24, D030_22, D030_103, and D030_102.

MM : Additives				
Active: 5 Inactive: 35				
Search		Filters		
Material ID	Material Name	Material Type	Date Created	Status
C121_88	Si O/18 recouEe	Additives	10/10/2024	Active
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 recouEe	Additives	10/10/2024	Active
D030_24	Bec O/25	Additives	10/10/2024	Inactive
D030_22	Si O/18 recouEe	Additives	10/10/2024	Active
D030_103	Ferreux	Additives	10/10/2024	Active
D030_102	Si O/18 recouEe	Additives	10/10/2024	Inactive

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 O/25** (Material ID | Material Name)

Material Information Tab

Basic Information (Read-only; fetched from external ERP system):

- Material ID = (Concatenation of ERP ID and Ops ID)
- Material Name
- ERP Commercial Material ID
- ERP Commercial Material Name
- ERP ACC Material ID
- ERP ACC 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

The screenshot shows a software interface with a sidebar on the left containing icons for search, users, documents, and actions. The main area has a header 'D030_24 | Bec 0/25'. Below the header are two tabs: 'Material Information' and 'Material Specification'. The 'Material Information' tab is active, displaying the following data:

Basic Information		Material Specification		
Material ID D030_24	Material Name Bec 0/25	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 0/25				
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		

At the bottom right are 'Cancel' and 'Save & Continue' buttons.

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

D030_24 | Bec 0/25

Material Information				Material Specification			
Chemistry Elements							
Elements (in %)	Low	Aim	High	Elements (in %)	Low	Aim	High
Al	0.0000	0.0000	0.0000	Mo	0.0000	0.0000	0.0000
As	0.0000	0.0000	0.0000	Na	0.0000	0.0000	0.0000
Au	0.0000	0.0000	0.0000	Nb	0.0000	0.0000	0.0000
Be	0.0000	0.0000	0.0000	Nd	0.0000	0.0000	0.0000
B	0.0000	0.0000	0.0000	Ni	0.0000	0.0000	0.0000
Ca	0.0000	0.0000	0.0000	Pb	0.0000	0.0000	0.0000
Cd	0.0000	0.0000	0.0000	Pr	0.0000	0.0000	0.0000
Ce	0.0000	0.0000	0.0000	Pt	0.0000	0.0000	0.0000
Co	0.0000	0.0000	0.0000	P	0.0000	0.0000	0.0000

Cancel **Save**

The screenshot shows a form for editing material details. It has two main tabs: "Material Information" and "Material Specification".

Material Information:

K	0.0000	0.0000	0.0000
La	0.0000	0.0000	0.0000
Li	0.0000	0.0000	0.0000
Mg	0.0000	0.0000	0.0000
Mn	0.0000	0.0000	0.0000

Material Specification:

V	0.0000	0.0000	0.0000
W	0.0000	0.0000	0.0000
Y	0.0000	0.0000	0.0000
Zn	0.0000	0.0000	0.0000
Zr	0.0000	0.0000	0.0000

Physical Elements:

Elements (in %)	Low	Aim	High
Ash	0.0000	0.0000	0.0000
Moisture	0.0000	0.0000	0.0000
Volatiles	0.0000	0.0000	0.0000

Buttons:

- Cancel
- Save

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)

The screenshot shows a list of additives. The table has the following data:

Material ID	Material Name	Material Type	Date Created	Status	Action
C121_88	Si O/18 recouEe	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 O/18 recouEe	Additives	10/10/2024	Active	
D030_24	Bec 0/25	Additives	10/10/2024	Inactive	
D030_22	Si O/18 recouEe	Additives	10/10/2024	Active	
D030_103	Ferreux	Additives	10/10/2024	Active	
D030_102	Si O/18 recouEe	Additives	10/10/2024	Inactive	

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Material Information Tab

Basic Information (Read-only; fetched from external ERP system):

- Material ID = (Concatenation of ERP ID and Ops ID)
- Material Name

- ERP Commercial Material ID
- ERP Commercial Material Name
- ERP ACC Material ID
- ERP ACC 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

The screenshot shows the DaVinci software interface for managing materials. The top navigation bar includes the VIRTUES logo, a search bar, and a user profile for 'Nora James'. The main content area displays two tabs: 'Material Information' and 'Material Specification'. The 'Material Information' tab is active, showing the following data for material C121_88:

Basic Information	Material Name	ERP Commercial Material Code	ERP Commercial Material Name	ERP ACC Material code
Material ID C121_88	Si 0/18 recouEe	CS83	SILICON FE <0.80% CA <0.30%	C121
ERP ACC Material Name Si mEtallurgique morceaux	Ops Technical Material code 88	Material Type Additives	Status Active	Date Created 01/21/2025
Material Description silicium 0/18 recouEe				

The 'Material Specification' tab is visible but not active. Below the tabs, there are sections for 'Additional Information' and 'Chemical Composition' (with tabs for 'Low', 'Aim', and 'High'). The 'Additional Information' section includes fields for Effective Date (18.08.24), Unit Weight (10.00 t), Actual Cost (12.00 €), Addition Group (12.00), Density (12.00 g/cm³), Standard Cost (12.00 €), CO2 Contributor (12.00), and kWh Melting (12.00 kWh/t).

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 value - 0
 - 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 value - 0
 - 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 lower than High
 - High
 - Editable and pre-populated with the existing value.
 - Default value - 0
 - 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
 - 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
 - Field Validation -
 - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
 - It has to be higher than Low and lower than High
 - High
 - Editable and pre-populated with the existing value.

- Mandatory - No
- Default - 0
- 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

The screenshot shows a software interface for managing material specifications. At the top, there's a header bar with the title 'C910_9 | SIO2DM' and a user profile for 'Nora James'. Below the header are two tabs: 'Material Information' and 'Material Specification', with 'Material Specification' being active. On the left, a vertical sidebar contains various icons for navigation. The main content area is divided into three sections:

- Chemistry Elements:** A table with columns for Element (in %), Low, Aim, and High. It lists elements like Al, As, Au, B, Be, C, Ca, Cd, Ce, Co, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Sb, Sc, Se, Si, Sm, Sn, Sr, S, Ta, and Te, all currently set to 0.0000.
- Material Information:** A table with columns for Element (in %), Low, Aim, and High. It lists elements like Al, As, Au, B, Be, C, Ca, Cd, Ce, Co, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Sb, Sc, Se, Si, Sm, Sn, Sr, S, Ta, and Te, all currently set to 0.0000.
- Material Specification:** A table with columns for Element (in %), Low, Aim, and High. It lists elements like Al, As, Au, B, Be, C, Ca, Cd, Ce, Co, Hf, Hg, In, K, La, Li, Mg, Mn, Mo, Na, Sb, Sc, Se, Si, Sm, Sn, Sr, S, Ta, and Te, all currently set to 0.0000.

At the bottom right of the form are 'Cancel' and 'Save' buttons.

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

Search Filters Export View

Material ID	Material Name	Material Type	Date Created	Status	
C121_88	Si O/18 recouEe	Additives	10/10/2024	Active	
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 recouEe	Additives	10/10/2024	Active	
D030_24	Bec O/25	Additives	10/10/2024	Inactive	
D030_22	Si O/18 recouEe	Additives	10/10/2024	Active	
D030_103	Ferreux	Additives	10/10/2024	Active	
D030_102	Si O/18 recouEe	Additives	10/10/2024	Inactive	

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Material Information Tab

Basic Information (Read-only; fetched from external ERP system):

- Material ID = (Concatenation of ERP ID and Ops ID)
- Material Name
- ERP Commercial Material ID
- ERP Commercial Material Name
- ERP ACC Material ID
- ERP ACC 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”.
 - Downloads the record in CSV format.
 - The file must include the following headers and display the values as the following example:
 - Exported File Name:
“Additives_Additional_Information_DDMMYY”

Effe	Ma	Mat	eria	l	Uni	Act	Addi	Stan	CO2	kW					
ctiv	terial	erial	l	Weigh	ual	Co	Gro	De	dard	Cont	h				
e	ID	Name	Type	st	up	ty	nsi	Cos	ribut	Mel	Create			Modifi	
Dat	D0													ed At	Modified By
e	09/30														
	07/25/2023	Ferr	itive	1.0	0U	2.0		4.	00		7.0	09/07/2025	pchakwate pchakwate Pradnya Chakwate	09/07/2025 07:37 AM	pchakwate Pradnya Chakwate
		eux	s	0t	SD			g/c	5.00		Wh	07:37 AM			
								3m³	USD	6/t					

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

The screenshot displays the 'Material Information' tab for material C910_9. It includes sections for Basic Information, Additional Information, and Material Specification. The Basic Information section shows details like Material ID, Name, and various commercial and ACC material IDs. The Additional Information section provides physical properties such as unit weight, actual cost, addition group, density, and standard cost. The Material Specification tab is visible at the top right.

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”.
- Downloads the record in CSV format.
- The file must include the following headers and display the values as the following example:
- Exported File Name: “**Additives_MaterialSpecification_DDMMYY**”

Element (in %)	Element Group	L	A	H	Created At	Modified At	Plant Material ID	Plant	Created By	Modified By
		o	i	m				6	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate
Al	CHE	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate
As	CHE	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate
Au	CHE	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate
Be	CHE	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate
B	CHE	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate
Ca	CHE	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate
Cd	CHE	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate
Ce	CHE	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate

Moisture	PHY	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	6V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate
Volatile	PHY	0	0	0	09/07/2025 07:37 AM	09/07/2025 07:37 AM	6V_D03_103	6V	pchakwate Pradnya Chakwate	pchakwate Pradnya Chakwate

The screenshot shows the DaVinci software interface for a material record. On the left is a vertical toolbar with icons for search, filter, add, edit, delete, and other functions. The main area has tabs for "Material Information" and "Material Specification". The "Material Information" tab is active, showing a table for "Chemistry Elements" with columns for Element, Low, Aim, and High values. The "Material Specification" tab shows a similar table for chemistry elements. A "View Change History" button is located at the top right of the specification table.

Elements (in %)	Low	Aim	High
Al	0.0000	0.0000	0.0000
As	0.0000	0.0000	0.0000
Au	0.0000	0.0000	0.0000
Be	0.0000	0.0000	0.0000
B	0.0000	0.0000	0.0000
Ca	0.0000	0.0000	0.0000
Cd	0.0000	0.0000	0.0000
Ce	0.0000	0.0000	0.0000
Co	0.0000	0.0000	0.0000
Cr	0.0000	0.0000	0.0000

Elements (in %)	Low	Aim	High
Hf	0.0000	0.0000	0.0000
Hg	0.0000	0.0000	0.0000
In	0.0000	0.0000	0.0000
K	0.0000	0.0000	0.0000
La	0.0000	0.0000	0.0000
Li	0.0000	0.0000	0.0000
Mg	0.0000	0.0000	0.0000
Mn	0.0000	0.0000	0.0000
Mo	0.0000	0.0000	0.0000
Na	0.0000	0.0000	0.0000

Elements (in %)	Low	Aim	High
Sb	0.0000	0.0000	0.0000
Sc	0.0000	0.0000	0.0000
Se	0.0000	0.0000	0.0000
Si	0.0000	0.0000	0.0000
Sm	0.0000	0.0000	0.0000
Sn	0.0000	0.0000	0.0000
Sr	0.0000	0.0000	0.0000
S	0.0000	0.0000	0.0000
Ta	0.0000	0.0000	0.0000
Te	0.0000	0.0000	0.0000

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”.**
- Export Filename - “Additives_ChangeHistory_DDMMYY”

C910_9 | SIO2DM

Material		SPECIFICATION CHANGE HISTORY						
		Old			New			
Date	Username	Element	Low	Aim	High	Low	Aim	High
05/01/2025 09:00 AM	JSmithOperator	Al	0.0000	0.0000	0.0000	1.9000	2.0000	2.4500
04/01/2025 09:00 AM	superadmin	Ca	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000
02/01/2025 07:00 AM	superadmin	Coarse Particles (>45um)	0.0000	0.0000	0.0000	0.0000	0.0000	2.4500
01/01/2025 09:00 AM	superadmin	Cl	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000

Chemistry Elements

Elements (in %)	Low	Aim
Al	0.0000	0.0000
As	0.0000	0.0000
Au	0.0000	0.0000
Be	0.0000	0.0000
B	0.0000	0.0000
Ca	0.0000	0.0000
Cd	0.0000	0.0000
Ce	0.0000	0.0000
Co	0.0000	0.0000

SPECIFICATION CHANGE HISTORY

Date	Username	Element	Low	Aim	High	Low	Aim	High
05/01/2025 09:00 AM	JSmithOperator	Al	0.0000	0.0000	0.0000	1.9000	2.0000	2.4500
04/01/2025 09:00 AM	superadmin	Ca	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000
02/01/2025 07:00 AM	superadmin	Coarse Particles (>45um)	0.0000	0.0000	0.0000	0.0000	0.0000	2.4500
01/01/2025 09:00 AM	superadmin	Cl	0.0000	0.0000	0.0000	0.0000	1.0000	0.0000