

# Da Vinci Smart Manufacturing

## BRD S04.04 Master Data Products

Version	Created/Modified by	Description	Date
1.0	Leopoldo Rivera Sahana Badal	S04.04 First draft	26/06/2025

1. Prodcuts List Screen .....	3
2. Add Material Details.....	7
Material Information Tab .....	7
Material Specification Tab.....	10
3. Edit Material Details.....	14
Material Information Tab .....	14
Material Specification Tab.....	16
4. View Material .....	20
Material Information Tab .....	21
Material Specification Tab.....	23

## 1. Prodcuts List Screen

This is designed to provide a comprehensive and user-friendly interface for managing Products, 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 : Products"
- **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 Products
  - Status -
    - Multiselect Dropdown:
    - Values: Active | Inactive
  - Clear Filter - This will clear all the applied filters
  - All Filter drop downs should be sorted alphabetically / numerically

### **Products List Section**

Users can view the list of all Products , 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
- **Material Group:**
  - Material group, 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
  - **Active** –Products that are activated in the system.
  - **Inactive** - Products 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 including chemical results of the list of records shown based on the combined results of filter selection, sort and search criteria. as the following example:

Material ID	Material Name	Material Type	Material Group	Create d At	Creat ed By	Modifie d At	Modifi ed By	Statu s
B1F2_281	PSSI Refusion B1F2	Finish ed Produ ct	Metallurgi cal Si	04/06/2025   06:27 AM	Saha na   Saha na Badal	04/06/2025   06:34 AM	Sahan a   Sahan a Badal	Activ e
B111_145	PSSI 8030 Ht Ph	Finish ed Produ ct	Si	04/06/2025   06:27 AM	Saha na   Saha na Badal	04/06/2025   06:34 AM	Sahan a   Sahan a Badal	Inacti ve
B111_3	PSSI4520 DC	Finish ed Produ ct	Chemical Si	04/06/2025   06:27 AM	Saha na   Saha na Badal	04/06/2025   06:34 AM	Sahan a   Sahan a Badal	Inacti ve
B111_306	PSO dope P Piscine	Semi Finish ed Produ ct	Metallurgi cal Si	04/06/2025   06:27 AM	Saha na   Saha na Badal	04/06/2025   06:34 AM	Sahan a   Sahan a Badal	Inacti ve

B111_1	PSSI2003	Semi Finish ed Produ ct	Si	04/06/2 025   06:27 AM	Saha na   Saha na Badal	04/06/2 025   06:34 AM	Sahan a   Sahan a Badal	Activ e
--------	----------	-------------------------------------	----	---------------------------------	-------------------------------------	---------------------------------	-------------------------------------	------------

### Exported File Name: “Products\_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.

MM: Products Active 5 Inactive 35

Q Search Filters Export View

Material ID	Material Name	Material Type	Date Created	Status
B111_148	PSSI 4503 B Alu	Finished Product	10/10/2024	Active
B111_146	PSSI BAS BORE	Semi-Finished Product	10/10/2024	Active
B111_4	PSSI2030	Finished Product	10/10/2024	Active
MB02_200	Charbon de bois	Finished Product	10/10/2024	Active
B1F1_280	PSSI Refusion BIF1	Finished Product	10/10/2024	Active
B111_309	PSSI 5003 Ht Alu	Finished Product	10/10/2024	Inactive
B111_302	PSSI4520DC	Finished Product	10/10/2024	Active
B111_306	PSO dopE P Piscine	Finished Product	10/10/2024	Active
B111_303	PSSI 5003	Finished Product	10/10/2024	Inactive
B111_299	PSSI45015	Finished Product	10/10/2024	Active

Showing 10 of 80 < 1 2 3 ... 8 > Rows Per Page: 10

Material ID	Material Name	Material Type	Date Created	Status
BT11_148	PSSI 4503 B Alu	Finished Product	10/10/2024	Active
BT11_146	PSSI BAS BORE	Semi-Finished Product	10/10/2024	Active
BT11_4	PSSI2030	Finished Product	10/10/2024	Active
MB02_200	Charbon de bois	Finished Product	10/10/2024	Active
BIF1_280	PSSI Refusion BIF1	Finished Product	10/10/2024	Active
BT11_309	PSSI 5003 Ht Alu	Finished Product	10/10/2024	Inactive
BT11_302	PSSI4520DC	Finished Product	10/10/2024	Active
BT11_306	PSO dopE P Piscine	Finished Product	10/10/2024	Active
BT11_303	PSSI 5003	Finished Product	10/10/2024	Inactive
BT11_299	PSSI45015	Finished Product	10/10/2024	Active

## 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 | **MB01\_197** | **Bois Rondins** (Material ID | Material Name)

Material ID	Material Name	Material Type	Date Created	Status	
BT11_148	PSSI 4503 B Alu	Finished Product	10/10/2024	Active	
BT11_146	PSSI BAS BORE	Semi-Finished Product	10/10/2024	Active	
BT11_4	PSSI2030	Finished Product	10/10/2024	Active	
MB02_200	Charbon de bois	Finished Product	10/10/2024	Active	
BIF1_280	PSSI Refusion BIF1	Finished Product	10/10/2024	Active	
BT11_309	PSSI 5003 Ht Alu	Finished Product	10/10/2024	Inactive	
BT11_302	PSSI4520DC	Finished Product	10/10/2024	Active	
BT11_306	PSO dopE P Piscine	Finished Product	10/10/2024	Active	
BT11_303	PSSI 5003	Finished Product	10/10/2024	Inactive	
BT11_299	PSSI45015	Finished Product	10/10/2024	Active	

## Material Information Tab

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

**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 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 999,999.99
- Units - \$ (currency from Plant Config)
- **Density\***
  - User inputs the value
  - Mandatory - Yes
  - Default value - None
  - Field Type - User input
  - Validation - Numeric 4 decimal values. Max allowed 999,999.9999
  - Units - Depending on Unit System setup on Plant config (g/l metric system or lbm/ft<sup>3</sup>)
- **Standard Cost\***
  - User inputs the value
  - Mandatory - Yes
  - Default value - None
  - Field Type - User input
  - Validation - Numeric 2 decimal values. Max allowed 999,999.99
  - Units - \$ (currency from Plant Config)

### **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

B111\_148 | PSSI 4503 B Alu

Nora James

---

**Material Information**

---

**Basic Information**

Material ID	Material Name	ERP Commercial Material ID	ERP Commercial Material Name	ERP ACC Material ID
B111_148	PSSI 4503 B Alu	B111	PS Silicium mEtal brut CHI	B111
ERP ACC Material Name	Ops Technical Material ID	Material Type	Status	Date Created
PS Silicium mEtal brut	148	Finished Product	Active	01/21/2025

Material Description

PS Silicium Dow Fe<0.45% Ca<0.032%

**Additional Information**

Effective Date\*

18/08/2024

Unit Weight\*

Actual Cost\*

Density\*

Standard Cost\*

Select t

Enter Value USD

Enter Value g/cm³

Enter Value USD

**Material Specification**

---

Cancel

Save & Continue

## 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.

The list of elements for Chemical and Physical can be seen in the design provided.

### Each Chemistry element will have the following

- Low -
  - User input
  - 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
  - User input
  - 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
  - User input
  - 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
- Warning Tolerance
  - System calculates using this formula.  

```
def calc_warning_tolerances(low, high, aim):

    cpk = 1.33

    if low == 0:

        if high > aim:

            return (high - aim) / cpk

        else:

            return 0

    else:

        if (high - aim) > (aim - low):

            return (aim - low) / cpk

        else:

            return 0
```
  - This calculation is triggered automatically when **Low, Aim, and High** values are entered.
  - Each warning tolerance value can be manually edited by clicking the **edit icon** next to the respective field.
  - **Value Deviation Validation:** If the user-entered value **deviates by more than ±5%** from the system-calculated value, the system shall **display a warning message** before accepting the value. “Entered value differs by more than 5% from the system-calculated value. Are you sure you want to proceed? Are you sure you want to proceed?”. Once confirmed user entered value can be saved.
  - Once a value is **overridden by the user**, it is highlighted with a background to indicate the change.
  - **Overridden values** will display a **reset icon**, allowing users to revert them back to the **system-calculated value**.
  - A **tooltip** appears on hover, explaining that the value has been **manually overridden**.
  - **Default – 0**
  - only integers, Max 100/ Min 0, 3 integers and Four places after decimal point

- **Control Elements** - Control elements determine which elements are mandatory for grading in the material specification.
  - Checkbox:
    - Can be **selected** or **deselected**.
    - **Default state:** Unselected.
  - **Element Restrictions:** Only the following elements can be checked/unchecked:
    - **Al, Ca, Fe, Ni, P, Ti, V**
    - All other elements will **not** have a checkbox option (i.e., selection is not permitted).

#### Each Physical element will have the following

- **Low** -
  - User input
  - 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**
  - User input
  - 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**
  - User input
  - 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

#### For Size specifications - User captures

- **Low**
  - Single select dropdown
  - Values - PAN, 6.30mm, 9.50mm, 12.50mm, 16mm, 19mm, 25mm, 37.5mm, 50mm, 63mm, 80mm, 90mm, 100mm, 125mm
  - Mandatory - No
  - Validation - No
- **Below Tolerance %**
  - User input

- Mandatory - No
- Validation - only integers, max value 100%
- **High**
  - Single select dropdown
  - Values - PAN, 6.30mm, 9.50mm, 12.50mm, 16mm, 19mm, 25mm, 37.5mm, 50mm, 63mm, 80mm, 90mm, 100mm, 125mm
  - Mandatory - No
  - Validation - High has to be more than Low. PAN is considered the lowest value.
- **Above Tolerance**
  - User input
  - Mandatory - No
  - Validation - only integers, max value 100%

### 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

Material Information

Material Specification

Chemistry Elements

Elements (in %)	Low	Aim	High	Warning Tolerance	Control
Al	0	0	0	0	
As	0	3	6	0	
Au	0	4	5	0	
Be	0	0	0	0	
B	0	0	0	0	
Ca	0	0	0	0	
Cd	0	0	0	0	
Ce	0	0	0	0	
Co	0	0	0	0	

cpk = 1.33  
if low == 0:  
if high > aim:  
warning\_tolerances = (high - aim) / cpk  
return warning\_tolerances  
else:  
return 0  
else:  
if (high - aim) > (aim - low):  
warning\_tolerances = (aim - low) / cpk  
return warning\_tolerances  
else:  
return 0

Cancel Save

### 3. Edit 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 | **MB01\_197** | **Bois Rondins** (Material ID | Material Name)

Material ID	Material Name	Material Type	Date Created	Status
B111_148	PSSI 4503 B Alu	Finished Product	10/10/2024	Active
B111_146	PSSI BAS BORE	Semi-Finished Product	10/10/2024	Active
B111_4	PSSI12030	Finished Product	10/10/2024	Active
<b>MB02_200</b>	Charbon de bois	Finished Product	10/10/2024	Active
B1F1_280	PSSI Refusion BIF1	Finished Product	10/10/2024	Active
B111_309	PSSI 5003 Ht Alu	Finished Product	10/10/2024	Inactive
B111_302	PSSI4520DC	Finished Product	10/10/2024	Active
B111_306	PSO dopE P Piscine	Finished Product	10/10/2024	Active
B111_303	PSSI 5003	Finished Product	10/10/2024	Inactive
B111_299	PSSI45015	Finished Product	10/10/2024	Active

### Material Information Tab

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

#### 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
  - **Density\***
    - Editable and pre-populated with the existing value.
    - Default value - None
    - Mandatory: Yes
  - **Standard Cost\***
    - Editable and pre-populated with the existing value.
    - Default value - None
    - Mandatory: Yes
- **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 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
- Warning Tolerance
  - System calculates using this formula.  
`def calc_warning_tolerances(low, high, aim):`  
  
`cpk = 1.33`  
  
`if low == 0:`  
  
`if high > aim:`  
  
`return (high - aim) / cpk`  
  
`else:`  
  
`return 0`  
  
`else:`  
  
`if (high - aim) > (aim - low):`  
  
`return (aim - low) / cpk`  
  
`else:`  
  
`return 0`
  - This calculation is triggered automatically when **Low**, **Aim**, and **High** values are entered.
  - Each warning tolerance value can be manually edited by clicking the **edit icon** next to the respective field.
  - **Value Deviation Validation:** If the user-entered value **deviates by more than ±5%** from the system-calculated value, the system shall **display a warning message** before accepting the value. "Entered value differs by more than 5% from the system-calculated value. Are you sure you want to proceed? Are you sure

you want to proceed?”. Once confirmed user entered value can be saved.

- Once a value is **overridden by the user**, it is highlighted with a background to indicate the change.
- **Overridden values** will display a **reset icon**, allowing users to revert them back to the **system-calculated value**.
- A **tooltip** appears on hover, explaining that the value has been **manually overridden**.
- **Default – 0**
- only integers, Max 100/ Min 0, 3 integers and Four places after decimal point
- Control Elements - Same as WIP. (Al, Ca, Fe, Ni, P, Ti, V)
  - Checkbox:
    - Editable and pre-populated with the existing value.
    - Default value - Unselected
    - Mandatory: No
  - **Element Restrictions:** Only the following elements can be checked/unchecked:
    - **Al, Ca, Fe, Ni, P, Ti, V**
    - All other elements will **not** have a checkbox option (i.e., selection is not permitted).
- **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

- **For Size specifications - User captures**
  - **Low**
    - Editable and pre-populated with the existing value.
    - Mandatory - No
    - Validation - No
  - **Below Tolerance %**
    - Editable and pre-populated with the existing value.
    - Mandatory - No
    - Validation - only integers, max value 100%
  - **High**
    - Editable and pre-populated with the existing value.
    - Mandatory - No
    - Validation - High has to be more than Low. PAN is considered the lowest value.
  - **Above Tolerance**
    - Editable and pre-populated with the existing value.
    - Mandatory - No
    - Validation - only integers, max value 100%
- **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

B111\_148 | PSSI 4503 B Alu

Nora James

Material Information

Material Specification

Chemistry Elements

Elements (in %)	Low	Aim	High	Warning Tolerance $f_k$	Control
Al	0	0	0	0	<input type="checkbox"/>
As	0	3	6	1.22	<input type="checkbox"/>
Au	0	4	5	0	<input type="checkbox"/>
Be	0	0	0	0	<input type="checkbox"/>
B	0	0	0	0	<input type="checkbox"/>
Ca	0	0	0	0	<input type="checkbox"/>
Cd	0	0	0	0	<input type="checkbox"/>
Ce	0	0	0	0	<input type="checkbox"/>
Co	0	0	0	0	<input type="checkbox"/>
Cr	0	0	0	0	<input type="checkbox"/>
Cu	0	0	0	0	<input type="checkbox"/>

B111\_148 | PSSI 4503 B Alu

Nora James

Material Information

Material Specification

Chemistry Elements

Elements (in %)	Low	Aim	High	Warning Tolerance $f_k$	Control
Al	0	0	0	0	<input type="checkbox"/>
As	0	3	6	1.22	<input type="checkbox"/>
Au	0	4	5	1.44	<input type="checkbox"/>
Be	0	0	0	0	<input type="checkbox"/>
B	0	0	0	0	<input type="checkbox"/>
Ca	0	0	0	0	<input type="checkbox"/>
Cd	0	0	0	0	<input type="checkbox"/>
Ce	0	0	0	0	<input type="checkbox"/>
Co	0	0	0	0	<input type="checkbox"/>
Cr	0	0	0	0	<input type="checkbox"/>
Cu	0	0	0	0	<input type="checkbox"/>

## 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 | **MB01\_197 | Bois Rondins** (Material ID | Material Name) | **Edit Icon:** Allows users to switch from view mode to edit mode to update the record.

MM : Products Active 5 Inactive 35

Q Search Filters Export View

Material ID	Material Name	Material Type	Date Created	Status	
B111_148	PSSI 4503 B Alu	Finished Product	10/10/2024	Active	View
B111_146	PSSI BAS BORE	Semi-Finished Product	10/10/2024	Active	
B111_4	PSSI12030	Finished Product	10/10/2024	Active	
MB02_200	Charbon de bois	Finished Product	10/10/2024	Active	
B1F1_280	PSSI Refusion BIF1	Finished Product	10/10/2024	Active	
B111_309	PSSI 5003 Ht Alu	Finished Product	10/10/2024	Inactive	
B111_302	PSSI4520DC	Finished Product	10/10/2024	Active	
B111_306	PSO dopE P Piscine	Finished Product	10/10/2024	Active	
B111_303	PSSI 5003	Finished Product	10/10/2024	Inactive	
B111_299	PSSI45015	Finished Product	10/10/2024	Active	

Showing 10 of 80 < 1 2 3 ... 8 > Rows Per Page : 10

## Material Information Tab

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

#### 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”.
    - Downloads the record in CSV format.
    - The file must include the following headers and display the values as the following example:
    - Exported File Name:  
**“DDMMYY\_Products\_Additional\_Information”**

Effective Date	Material ID	Material Name	Material Type	Unit Weight (unit )	Actual Cost (unit )	Density (unit )	Standard Cost	Created By	Modified By	Created At	Modified At
04/06/2025	B111_303	PSSI 5003	Finished Product	230.21	230.21	1.4567	250	sbadal   Sahan Badal	sbadal   Sahan Badal	19/06/2025   07:38 AM	19/06/2025   07:39 AM

- **Unit Weight**
- **Actual Cost**
- **Density**
- **Standard Cost**

## Material Specification Tab

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

### Each Chemistry element will have the following

- Low
- Aim
- High
- Warning Tolerance - Once a value is **overridden by the user**, it is highlighted with a background to indicate the change.
- Control Elements checkbox

### Each Physical element will have the following

Low

- Aim
- High

### For Size specifications

- Low
- Below Tolerance %
- High
- Above Tolerance

### 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: **“DDMMYY\_Products\_MaterialSpecification”**

Element (in %)	Element Group	Low	Aim	High	Warning Tolerance	Control	Created At	Modified At			Plant Material ID	Plant
Al	CHE	0	5	8	3.7594	True	19/06/2025   07:38 AM	19/06/2025   07:39 AM			6V_B111_303	6V
As	CHE	0	0	0	0	False	19/06/2025   07:38 AM	19/06/2025   07:39 AM			6V_B111_303	6V

Nora James

← B111\_148 | PSSI 4503 B Alu

Material Information

Material Specification

View Change History

Chemistry Elements

Elements (in %)	Low	Aim	High	Warning Tolerance	Control
Al	0	0	2.06	0	
As	0	0	0	1.22	—
O	0	0	0	0	—
Be	0	0	0	0	—
B	0	0	0	0	—
O	0	0	2.06	0	
Cd	0	0	0	0	—
Ce	0	0	0	0	—
Co	0	0	0	0	—
Cr	0	0	0	0	—

## 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 - “DDMMYY\_Products\_ChangeHistory”

← B111\_148 | PSSI 4503 B Alu

Material

Chemistry Elements

Elements (in %)	Low	Aim
Al	0	0
As	0	0
O	0	0
Be	0	0
B	0	0
O	0	0
Cd	0	0
Ce	0	0
Co	0	0
Cr	0	0

SPECIFICATION CHANGE HISTORY

Date	Username	Element	Old				New			
			Low	Aim	High	Control	Low	Aim	High	Control
05/01/2025 09:00 AM	JSmithOperator   John Smith	Al	0.0000	0.0000	0.0000	☑	1.9000	2.0000	2.4500	☑
04/01/2025 09:00 AM	superadmin   Jacob Wills	B	0.0000	0.0000	0.0000	☑	1.9000	2.0000	2.4500	☑
		Ca	0.0000	0.0000	0.0000	☑	0.0000	1.0000	0.0000	⊗
		Al	0.0000	0.0000	0.0000	⊗	0.0000	0.0000	0.0000	☑
02/01/2025 07:00 AM	superadmin   Jacob Wills	Moisture	0.0000	0.0000	0.0000	—	0.0000	0.0000	2.4500	—
01/01/2025 09:00 AM	superadmin   Jacob Wills	B	0.0000	0.0000	0.0000	☑	1.9000	2.0000	2.4500	☑
		Ca	0.0000	0.0000	0.0000	☑	0.0000	1.0000	0.0000	⊗