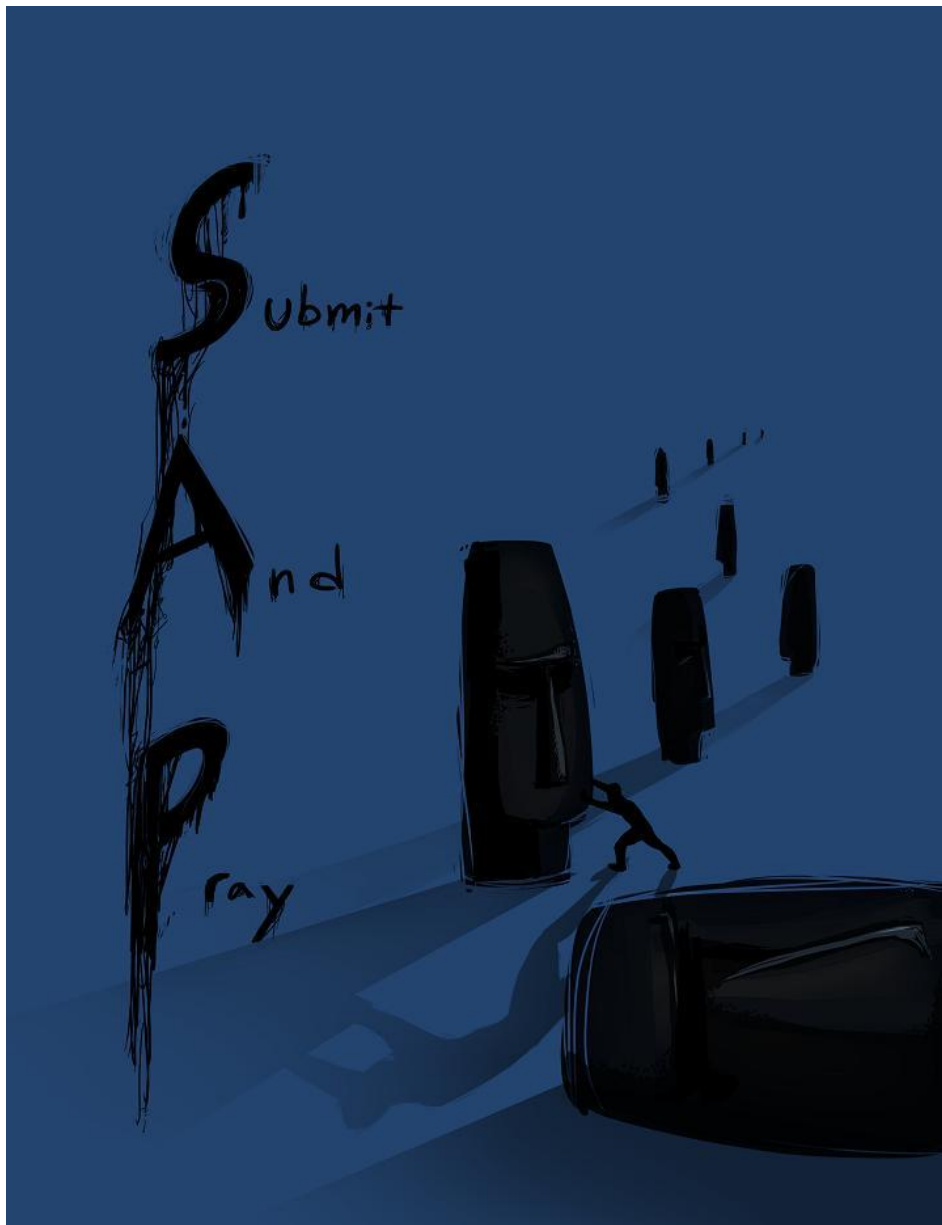


Inventory Analytics with MC.9



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Inventory Analytics

MC.9

- MC.9 is a standard method of doing inventory analysis in SAP.
- Information on number of times an item is used, the quantity used, and the type of consumption (planned or unplanned) can be built into standard extracts.
- Questions that the standard inventory screens can help answer include:
- What is my consumption history?
- This can help you determine how many days/weeks/months on hand you have. It can help you determine you ABCXYZ based on usage.
- When did I last receive and item? When did I last consume and item?
- A last receipt or consumption long ago may indicate excess and potential obsolescence.
- What are my inventory turns? Days of Coverage based on consumption?

Inventory Analytics

MC.9

- For items that get put to a stock location, MC.9 can help you determine the vitality and trends of your inventory.
- You can run it by MRP controller, wide open by plant, or by any other maintained value listed on the selection screen.
- MC.9 always defaults to the last 90 days for a date range, but you can modify that just by changing the date range.

After making selections hit the execute button.

Material Analysis: Stock: Selection

SelectVers. User settings Standard drilldown

Characteristics

| | | | | |
|------------------|--|----|--|---------|
| Plant | | to | | Execute |
| Storage Location | | to | | Execute |
| Material | | to | | Execute |
| MRP Controller | | to | | Execute |

Material Groupings

| | | | | |
|-----------------|--|----|--|---------|
| Material Type | | to | | Execute |
| Material Group | | to | | Execute |
| Valuation Class | | to | | Execute |

Period to Analyze

| | | | | |
|-------|---------|----|---------|---------|
| Month | 03/2017 | to | 05/2017 | Execute |
|-------|---------|----|---------|---------|

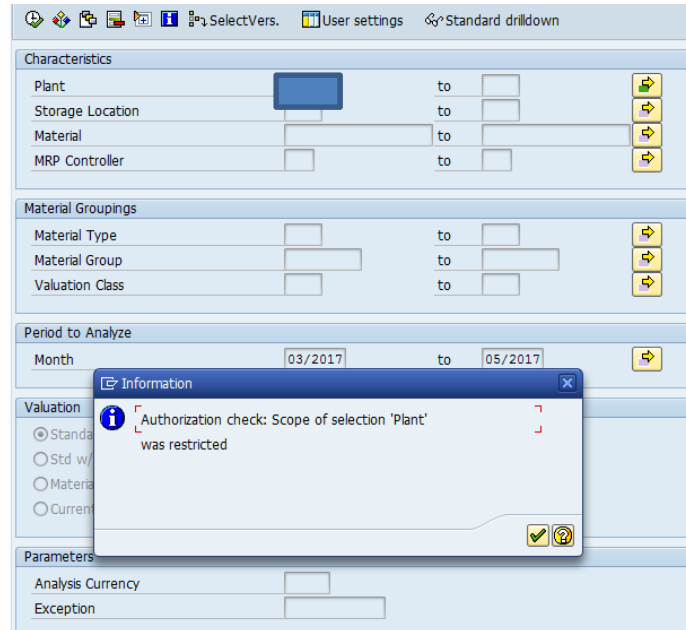
Valuation

Standard
 Std w/o Distrib.
 MaterialLedger Active
 Current Price

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- If this screen pops up, just hit the green check mark and move through it.



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- This should bring you here

This is a very important Button that lets you add a lot of power to this view

Material Analysis: Stock: Basic List

Switch drilldown... Top N...

No. of Material: 17475

| Material | ValStockValue | Valuated stock | CnsgtStock |
|--------------|--------------------------|--------------------------|------------------|
| Total | 36,620,325.17 USD | 8,633,948.471 *** | 0.000 *** |
| 30 | 0.00 USD | 0 EA | 0 EA |
| 4 | 0.00 USD | 0 EA | 0 EA |
| 6 | 0.00 USD | 0 EA | 0 EA |
| 8 | 0.00 USD | 0 EA | 0 EA |
| 420 | 0.00 USD | 0 EA | 0 EA |
| 615 | 0.00 USD | 0 EA | 0 EA |
| 615L | 12.48 USD | 2 EA | 0 EA |
| | 0.00 USD | 0 EA | 0 EA |
| | 0.00 USD | 0 EA | 0 EA |
| | 0.00 USD | 0 EA | 0 EA |
| | 0.08 USD | 8 EA | 0 EA |
| | 0.38 USD | 64 EA | 0 EA |
| | 0.00 USD | 0 EA | 0 EA |
| | 0.00 USD | 0 EA | 0 EA |

This is your part number
 This is your current \$ value
 This is your current in stock

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The screenshot shows the SAP Inventory Analytics interface. At the top, there is a toolbar with various icons, including a green checkmark icon. Below the toolbar, the text 'No. of Material: 608' is displayed. The main area contains a table with columns: Material, ValStockValue, Valuated stock, and CnsgtStock. The 'Total' row is highlighted in yellow, showing a value of 4,746,341.97 USD. A dialog box titled 'Choose Key figures' is open, showing a list of selection criteria on the left and a list of key figures on the right. The 'Valuated Stock Value' and 'Valuated stock' criteria are selected. The 'Total stock' key figure is highlighted in red. The dialog box also shows 'Current number' as 7 and 'Maximum number' as 30. A green checkmark icon is visible in the bottom right corner of the dialog box.

When I click here,
This comes up.
When I select the options,
I can bring them over to
The main spreadsheet by
Hitting the side ways
Triangles.
After I add the options
I want I have to hit the
Green check mark.

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Inventory Analytics

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Material Analysis: Stock: Basic List

Switch drilldown... Top N...

No. of Material: 608

| Material | ValStockValue | Valuated stock | CnsgtStock | Last consumptn | Last Receipt | N. total usage | Total usage |
|----------|------------------|-----------------|------------|----------------|--------------|----------------|-----------------|
| | 4,746,541.97 USD | 146,930.000 *** | 0.000 *** | | | 9,136 | 167,826.000 *** |
| | 0.00 USD | 0 EA | 0 EA | 10/05/2016 | 01/03/2016 | 1 | 2 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/09/2016 | 10/17/2016 | 4 | 98 EA |
| | 0.00 USD | 0 EA | 0 EA | 09/22/2016 | 08/20/2016 | 1 | 98 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/08/2016 | 01/03/2016 | 1 | 8 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/05/2016 | 01/03/2016 | 1 | 5 EA |
| | 0.00 USD | 0 EA | 0 EA | 05/12/2017 | 02/23/2017 | 2 | 3 EA |
| | 0.00 USD | 0 EA | 0 EA | 11/23/2016 | 11/23/2016 | 4 | 4 EA |
| | 0.00 USD | 0 EA | 0 EA | 02/22/2016 | 01/29/2016 | 1 | 1 EA |
| | 0.00 USD | 0 EA | 0 EA | 09/27/2016 | 01/03/2016 | 1 | 3 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/08/2016 | 01/03/2016 | 1 | 4 EA |
| | 2,007.69 USD | 1 EA | 0 EA | 01/10/2017 | 07/31/2016 | 2 | 27 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/08/2016 | 01/03/2016 | 1 | 4 EA |
| | 0.00 USD | 0 EA | 0 EA | 05/11/2017 | 03/31/2017 | 32 | 127 EA |

- Now I have something with a lot of information.
- The last consumption date and the last receipt date can give you a good view of what may be slow moving.
- “No. of Total usage: is the number of times an item has been used, which can help in the XYZ analysis.
- Total usage is both the planned and unplanned consumption for the period/date range you requested.

Inventory Analytics

MC.9

Step 2

Material Analysis: Stock: Basic List

Switch drilldown... [icon] [icon] [icon] Top N... [icon] [icon] [icon]

No. of Material: 608

| Material | Val StockValue | Valuated stock | CnsgtStock | Last consumptn. | Last Receipt | No. total usage | Total usage |
|----------|------------------|-----------------|------------|-----------------|--------------|-----------------|-----------------|
| | 4,746 541.97 USD | 146,930.000 *** | 0.000 *** | | | 0.126 | 167,826.000 *** |
| | 0.00 USD | 0 EA | 0 EA | 10/05/2016 | 01/03/2016 | | 2 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/09/2016 | 10/17/2016 | | 98 EA |
| | 0.00 USD | 0 EA | 0 EA | 09/22/2016 | 08/20/2016 | | 98 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/08/2016 | 01/03/2016 | 1 | 8 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/05/2016 | 01/03/2016 | 1 | 5 EA |
| | 0.00 USD | 0 EA | 0 EA | 05/12/2017 | 02/23/2017 | 2 | 3 EA |
| | 0.00 USD | 0 EA | 0 EA | 11/23/2016 | 11/23/2016 | 4 | 4 EA |
| | 0.00 USD | 0 EA | 0 EA | 02/22/2016 | 01/29/2016 | 1 | 1 EA |
| | 0.00 USD | 0 EA | 0 EA | 09/27/2016 | 01/03/2016 | 1 | 3 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/08/2016 | 01/03/2016 | 1 | 4 EA |
| | 2,007.69 USD | 1 EA | 0 EA | 01/10/2017 | 07/31/2016 | 2 | 27 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/08/2016 | 01/03/2016 | 1 | 4 EA |
| | 0.00 USD | 0 EA | 0 EA | 05/11/2017 | 03/31/2017 | 32 | 127 EA |

Step 1

Keep this little icon in mind.
When I click into a table field (step 1), and then click the icon (Step 2), the next slide shows up.

Inventory Analytics

MC.9

The screenshot shows a software interface with a 'Time series' header. Below it, a 'Key figure' dropdown menu is highlighted with a blue box and contains the text 'No. total usage'. The main table displays usage data by month from 01/2016 to 08/2016. The 'Total' row is highlighted in yellow. A blue rectangular box covers the left side of the table, obscuring the material names. A small red box highlights the value '0' in the 05/2016 column for one of the materials.

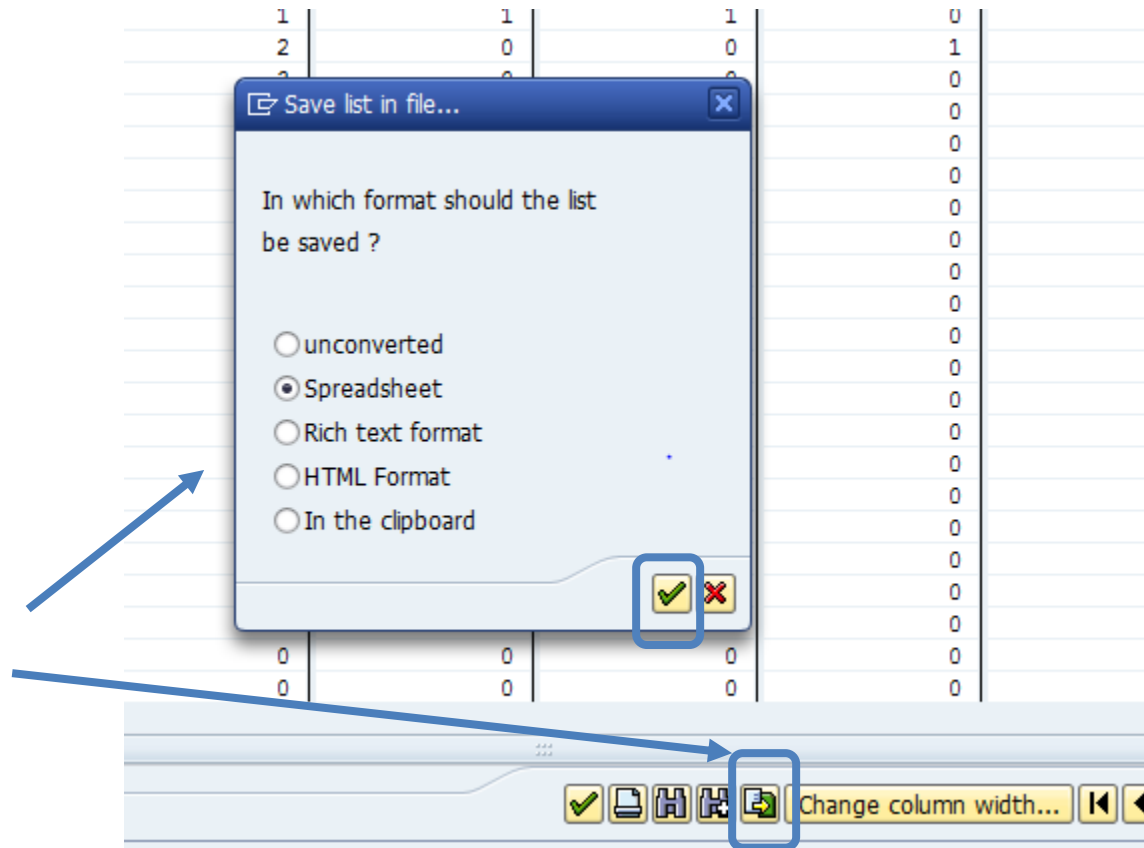
| Material | 01/2016 | 02/2016 | 03/2016 | 04/2016 | 05/2016 | 06/2016 | 07/2016 | 08/2016 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| Total | 180 | 563 | 997 | 701 | 611 | 838 | 729 | 822 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| X | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| X | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

- The field selected was the number of total usage (number of time an item was used, not the number of pieces used). If you recall when we ran this by MRP controller, we selected the date range 1/2016 to 5/2017. This now shows us all the total usages by month.

Inventory Analytics

MC.9

- In the lower right hand corner is an export button so if you are doing an XYZ analysis, you can pull it into a spreadsheet for easier manipulation.
- Click the little side ways arrow and the “Save List” pops up, and then select the green check mark and a location to save it.



Inventory Analytics

MC.9

- I am going to do the same thing for Total usage (which is the quantity used by month) and save that as well.

| Key figure | Total usage | 01/2016 | 02/2016 | 03/2016 | 04/2016 | 05/2016 | 06/2016 | 07/2016 |
|--------------|-------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Material | | | | | | | | |
| Total | | 339.000 *** | 4,759.000 *** | 4,864.000 *** | 2,966.000 *** | 2,355.000 *** | 2,337.000 *** | 2,522.000 *** |

1. Greencheck mark

2. Select directory

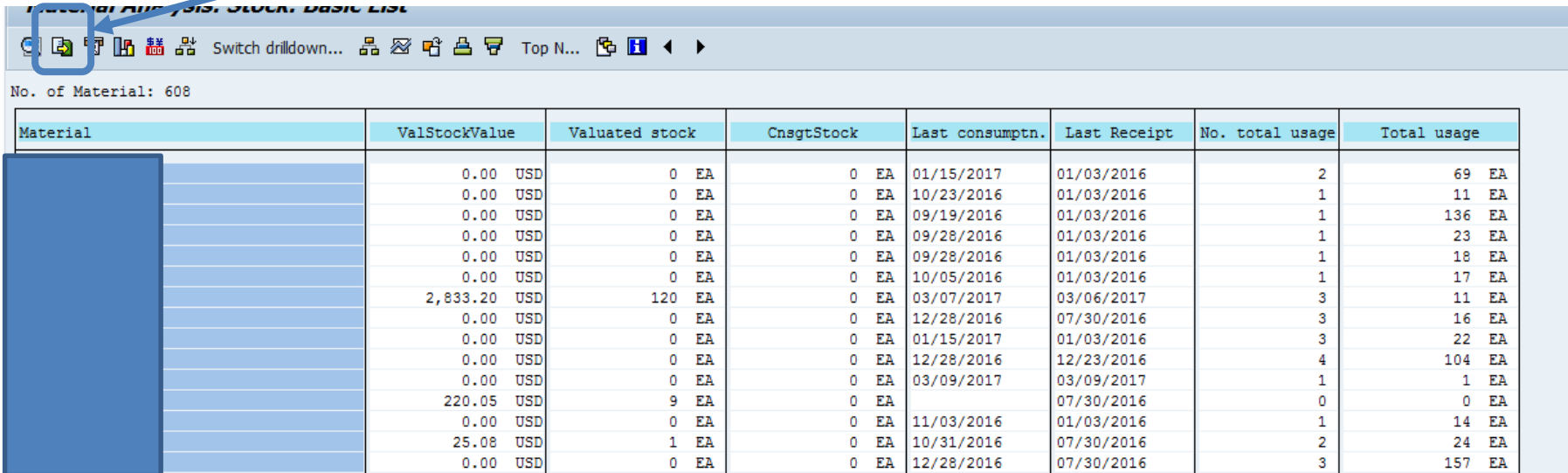
3. Name/Save file

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Inventory Analytics

MC.9

- I can also export the higher level current state snap shot. Note the export arrow is in the upper left corner for this one.



Material: 608

| Material | ValStockValue | Valuated stock | CnsgtStock | Last consumptn. | Last Receipt | No. total usage | Total usage |
|----------|---------------|----------------|------------|-----------------|--------------|-----------------|-------------|
| | 0.00 USD | 0 EA | 0 EA | 01/15/2017 | 01/03/2016 | 2 | 69 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/23/2016 | 01/03/2016 | 1 | 11 EA |
| | 0.00 USD | 0 EA | 0 EA | 09/19/2016 | 01/03/2016 | 1 | 136 EA |
| | 0.00 USD | 0 EA | 0 EA | 09/28/2016 | 01/03/2016 | 1 | 23 EA |
| | 0.00 USD | 0 EA | 0 EA | 09/28/2016 | 01/03/2016 | 1 | 18 EA |
| | 0.00 USD | 0 EA | 0 EA | 10/05/2016 | 01/03/2016 | 1 | 17 EA |
| | 2,833.20 USD | 120 EA | 0 EA | 03/07/2017 | 03/06/2017 | 3 | 11 EA |
| | 0.00 USD | 0 EA | 0 EA | 12/28/2016 | 07/30/2016 | 3 | 16 EA |
| | 0.00 USD | 0 EA | 0 EA | 01/15/2017 | 01/03/2016 | 3 | 22 EA |
| | 0.00 USD | 0 EA | 0 EA | 12/28/2016 | 12/23/2016 | 4 | 104 EA |
| | 0.00 USD | 0 EA | 0 EA | 03/09/2017 | 03/09/2017 | 1 | 1 EA |
| | 220.05 USD | 9 EA | 0 EA | | 07/30/2016 | 0 | 0 EA |
| | 0.00 USD | 0 EA | 0 EA | 11/03/2016 | 01/03/2016 | 1 | 14 EA |
| | 25.08 USD | 1 EA | 0 EA | 10/31/2016 | 07/30/2016 | 2 | 24 EA |
| | 0.00 USD | 0 EA | 0 EA | 12/28/2016 | 07/30/2016 | 3 | 157 EA |

MC.9

My defaults

- You may choose different defaults, these are the ones I typically use.
- Note, when running analysis I typically specify a 12 month date range as well.
- After saving, if you want to add more dimensions, go ahead. As long as you don't save it, the default should stay the same.

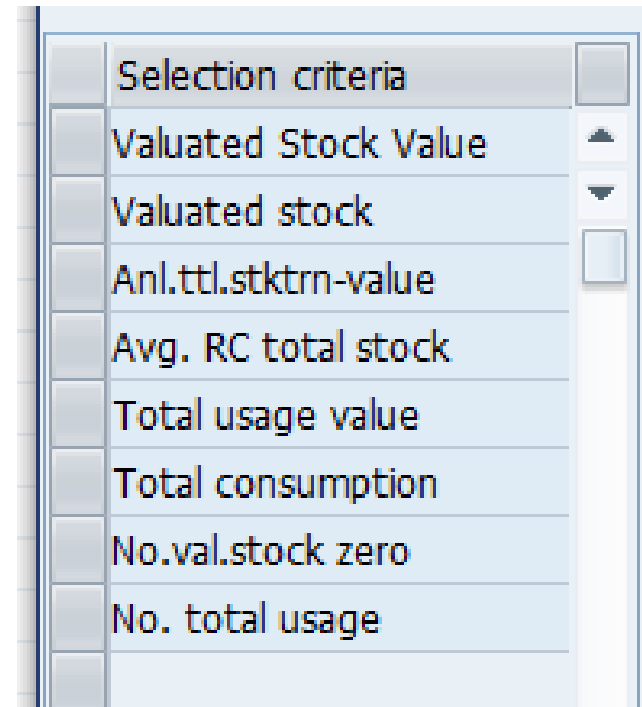
The screenshot shows the SAP 'Material Analysis: Stock: Basic List' interface. The main table displays stock data for material 6896, with columns for 'Material', 'ValStockValue', 'Valuated stock', 'AnItStIn-V', 'AvRC TStk', and 'Tot. usage val.'. A 'Choose Key figures' dialog box is open, showing a list of key figures on the right and selection criteria on the left. The dialog has a 'Maximum number' field set to 30. A blue box highlights the 'Choose Key figures' dialog, and a callout box points to the selection criteria list with the text '1. Select the dimensions'. Another callout box points to the selection buttons with the text '2. Use the little buttons to select or deselect the dimensions you want.'

1. Select the dimensions

2. Use the little buttons to select or deselect the dimensions you want.

MC.9

- Valuated Stock Value is the value in the currency your plant uses, by part number.
- Valuated Stock is the quantity by part number.
- Annual Total Stock Turn Value is the turns by part number for the year.
- Average Range of Coverage is the number of days of the FORECAST covered (does not include past due).
- Total Usage Value is the value of the materials consumed in plant currency.
- Total consumption is the consumption quantity.
- Number of times the stock went to zero is the number of times an SAP location went to zero units.
- Number of total usage is the number of times a part was used (regardless of the number of pieces used each time).



A screenshot of a SAP selection criteria list. The list is displayed in a table-like format with a light blue background. The first row is a header row with the text 'Selection criteria' and a small square icon to its right. The subsequent rows are data rows, each with a text label and a small square icon to its right. The labels are: 'Valuated Stock Value', 'Valuated stock', 'Anl.ttl.stktrn-value', 'Avg. RC total stock', 'Total usage value', 'Total consumption', 'No.val.stock zero', and 'No. total usage'. The icons are small squares, some of which are slightly shaded or have a different color, possibly indicating different selection options or states.

| Selection criteria | |
|----------------------|--|
| Valuated Stock Value | |
| Valuated stock | |
| Anl.ttl.stktrn-value | |
| Avg. RC total stock | |
| Total usage value | |
| Total consumption | |
| No.val.stock zero | |
| No. total usage | |

MC.9

Saving settings

- To save the key dimensions you like, so when you come back to MC.9 view you want, go to “Settings” and select save settings.

Material Analysis: Stock: Basic List

No. of Material: 6896

| Material | ValStockValue | Valuated stock | AnItStIn-V | AvgRC | TStk | T |
|--------------|--------------------------|------------------------|--------------|-----------|-----------|---|
| Total | 21,730,311.85 USD | 508,379.225 *** | 12.45 | 25 | 65 | |
| | 0.00 USD | 0 EA | 99,999.00 | 0 | | |
| | 70.72 USD | 197 EA | 0.00 | 99,999 | | |
| | 0.00 USD | 0 EA | 99,999.00 | 0 | | |
| | 0.00 USD | 0 EA | 0.00 | 0 | | |
| | 0.00 USD | 0 EA | 99,999.00 | 0 | | |