SCREEN - Pack. Manuf. Consumption analysis

SCREEN - Consumption analysis

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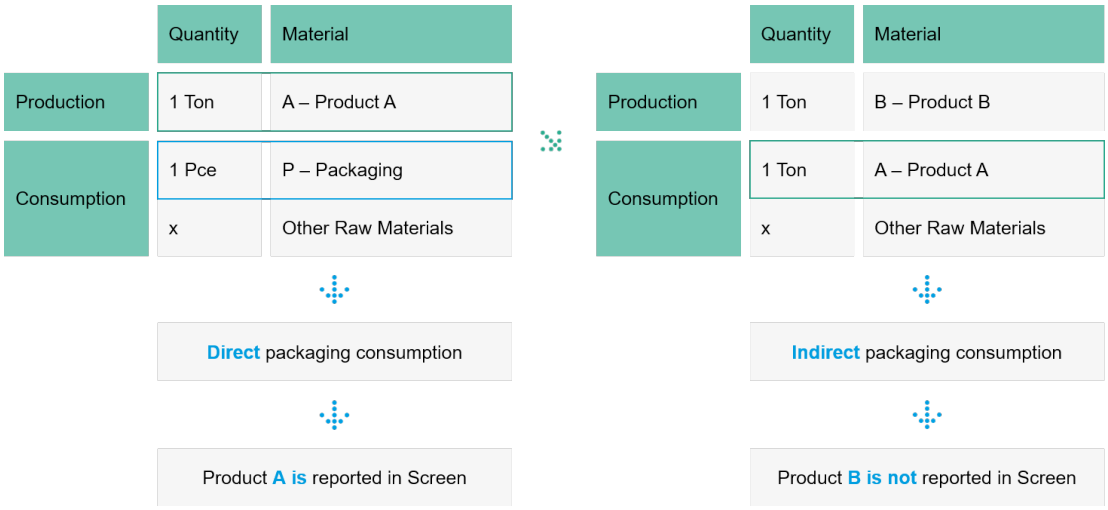
⚠ The aim of this query is to provide users with a transversal view of Packaging material consumption in production process in WP1 and PF1

It includes:

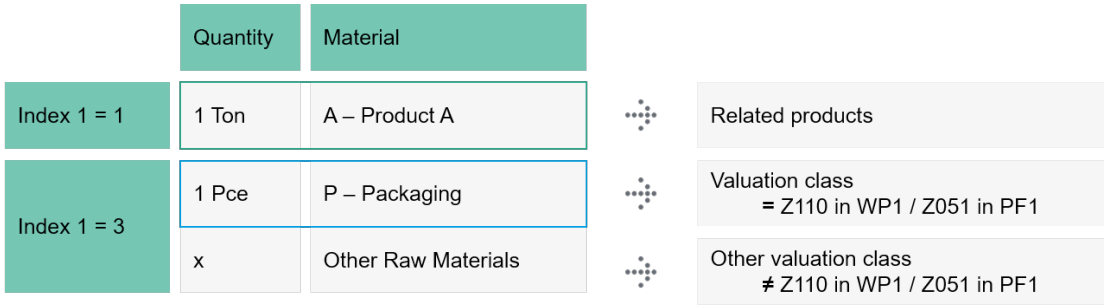
- Packaging components: Actual + target quantities and costs
- Manufactured materials (so-called products):
  - Actual production quantities and costs (total + variable) of products including “direct” packaging consumption, in order to measure weight of packaging vs production metrics. “Direct” means that if finished B has semi finished A in its BoM, and if A has packaging component P in its BoM, only A is reported as product in Screen report (and not B) => multi level consumption is not supported.



- Sold quantity, Net sales and Variables Cost of sales, in order to measure weight of packaging costs vs sales and costs of sales. Same products as identified above.

It mainly includes IMEP - Integrated Manufacturing & Energy Performance data

  - Packaging materials are selected as BoM components (IMEP - Index 1 = 3) according to their Valuation class: WP1 Z110 (stock account 31000300) and PF1 Z051 (2110110000)
  - Related products are all the ones for which packaging is consumed in the same Plant / Period (IMEP - Index 1 = 1)



It also includes P&L data (sales):

- For all selected products (see above), some related sales infos (including Sold quantity, Net sales and Variable Costs of Sales) are pulled from COPA at Company code / Period level. That means that for ex in Period 01.2021, if Material 10363 is produced in Plant 7851, the whole sales of 10363 in Company 8090 are taken into account, and not only sales from Plant 7851

			Period 1			
			Company code 8090			
			Plant 7851		Other plants	
Source			Quantity	Material	Quantity	Material
iMEP		Production	1 Ton	10363 – RHODAFAC		
		Consumption	5 Pces	1060794 – Drum		
			x	Other Raw Materials		
P&L		Sales	1 Ton	10363 – RHODAFAC		

- It is assumed that, most of the time, production and sales do not occur during the same period; for this reason, comparisons should be done for several rolling periods in order to minimize this time effect
- A technical split is performed in Screen in order to get iMEP packaging costs all along sales dimensions (Customer, Ship-to...) that do not exist in iMEP

Period 1									
Company code 8090									
		Production (= iMEP)				Sales (= P&L)			
Plant	Packaging	Production Order	Pack costs by order	Finished product	Quantity Sold	Net sales	Ship-to	Pack costs by Ship-to
7851	1060794 - Drum	9066540	(a) 1 570 €	22480 - RHODAFAC	4 800 kg	14 000 €	55099 – NEW DOCKS	(b) 277 €
					22 400 kg	66 000 €	2012143 - OOSTVOGELS	1 293 €
		9066566	935 €	23128 - RHODASURF	67 000 kg	176 000 €	55099 – NEW DOCKS	935 €

Allocation of packaging costs by Ship-to

Ex:
17% x 1 570 € (a) = 277 € (b)

Data update

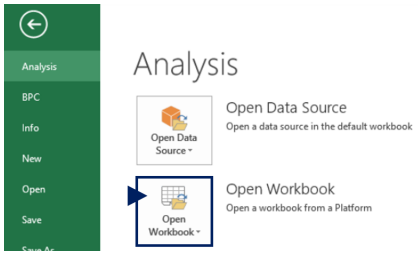
- iMEP data: several times a day from D1 to D6, once a day the rest of the month
- P&L data: several times a day from D2 to D5, once a day the rest of the month

Access the workbook

The workbook to be used is **BW_WBK_SCRE_0003 – Pack. Manuf. Consumption analysis (Core Workbook)**

=> Go to Analysis for Office in excel

=> Click "Open Workbook"



Run the workbook

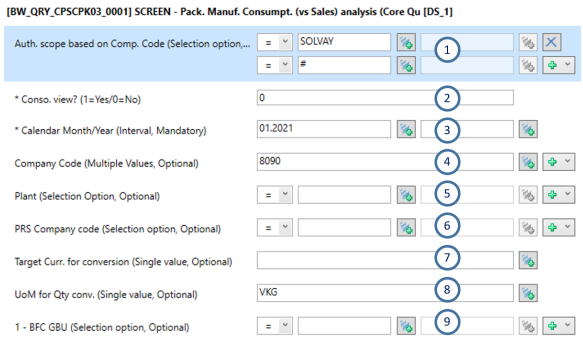
It is mandatory to enter:

- Conso view (2) : enter **1** to apply the legal entity consolidation rate or **0** not to take the consolidation rate into consideration
- Calendar Month/Year (3) : MM.YYYY : from posting date

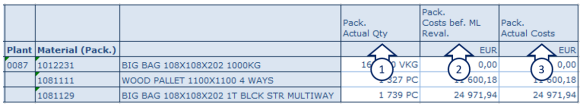
It is also possible to enter:

- a Company Code (4)
- a Plant (5)
- a PRS Company code (6)
- Target Curr. for conversion (7) : the exchange rate used is CA R3
- UoM for Qty conv. : Unit of Measure (VKG by default)
- BFC GBU (8)

Click "OK"



Basic report



Plant	Material (Pack.)		Pack. Actual Qty	Pack. Costs bef. ML Reval.	Pack. Actual Costs
				EUR	EUR
0087	1012231	BIG BAG 108X108X202 1000KG	1 VKG	0,00	0,00
	1081111	WOOD PALLET 1100X1100 4 WAYS	27 PC	600,18	600,18
	1081129	BIG BAG 108X108X202 1T BLCK STR MULTIWAY	1 739 PC	24 971,94	24 971,94

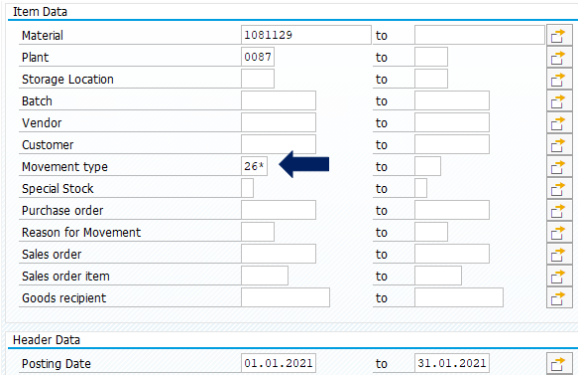
The report is displayed with :

1. Pack. Actual Qty: actual packaging consumption on Production orders (Cost collectors / Process orders) (IMEP - Index 1 = 3. It corresponds to movement types 261/262)
2. Pack Costs bef. ML Reval.: value of actual packaging consumption
   - WP1: same as Actual costs (3)
   - PF1: standard value before month-end ML revaluation
3. Pack Actual Costs: value of actual packaging consumption
   - WP1: consumed qty at standard price (IMEP - Index 1 = 3)
   - PF1: real value including month-end Material Ledger revaluation (IMEP - Index 1 = 3)

Where to find corresponding data in SAP ?

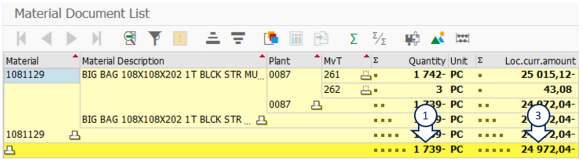
Display Material movements with the transaction MB51 - Material Document List.

- Enter Movement type = 26* in the prompt:

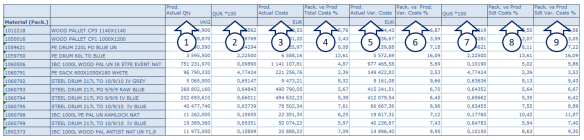


Consumption of material 1081129 BIG BAG 108X108X202 1T BLCK ST / plant 0087 in 01.2021 in process orders

1. = 1 739 PC
2. = 24 972,04 EUR (at standard costs)



Production quantities & costs



1. Prod. Actual qty: actual production qty issued from Production/Process orders (IMEP index 1 = 1)
2. OUR *100: Pack. Actual qty / Prod. Actual qty * 100
    - Actual number of packaging units needed to produce 1 unit of finished product
3. Prod. Actual Costs: Actual production costs
    - In WP1: Standard costs (IMEP index 1 = 3) + Process order variances (IMEP index 1 = 6)
    - In PF1: Production costs including Material ledger revaluation (IMEP index 1 = 3)
4. Pack. vs Prod Total Costs %: Actual packaging costs / Prod. Actual Costs (3)
5. Prod. Actual Var. Costs: Variable production costs (costs of raw materials & energy)
6. Pack. vs Prod. Var. Costs %: Actual packaging costs / Prod. Actual Var. Costs (5)
7. QUS *100: Pack. Target qty / Prod. Actual qty * 100
    - Theoritical number of packaging units needed to produce 1 unit of finished product (according to its standard Bill of Materials)
8. Pack. vs Prod Sdt Costs %: Packaging target costs / Production Actual costs (3) x

100 => Theoritical part of packaging costs in standard production costs

9. Pack. vs Prod Sdt Var. Costs %: Packaging target costs / Production Actual variable costs (5) x 100 => Theoritical part of packaging costs in variable standard production costs

Sales quantities & costs

			Sold Qty	Sales	Var. CoS
Company Code	Material (Prod.)		VKG	EUR	EUR
8090	55394	ZEOSIL 1165MP BB 700 KG / WOOD PAL	599,750	575,75	041,99
	101441	ZEOSIL HRS 1200 MP BB 750 KG/ RETURN PAL	[illegible] 185,660	[illegible] 115,57	[illegible] 003,03
	135357	ZEOSIL 195MP BB 750 KG / ONE WAY PAL	35 999,720	43 451,71	14 650,32

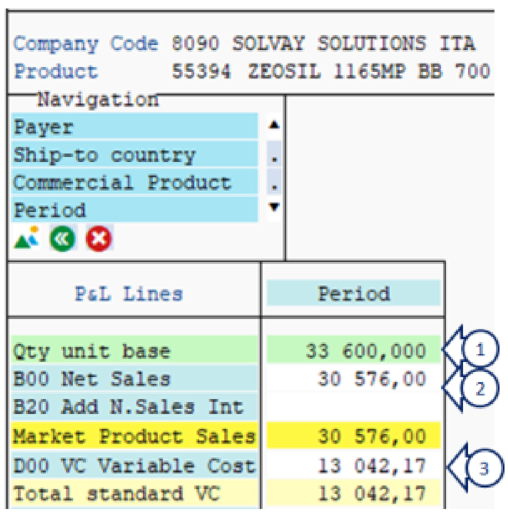
1. Sold Qty: Quantity sold (BFC account = N8110)
2. Sales: Product net sales (BFC account = R10000 - Net sales)
3. Var. CoS: Variable costs of goods sold (BFC account = R1 5400 - Variable costs of sales)

by product sold (=Material (Prod.)

Where to find corresponding data in SAP ?

In KE30 - Profitability report

1. Sold Qty: Qty unit base
2. Sales: B00 Net Sales
3. Var. CoS: D00 VC Variable Cost



Packaging costs / sales

		Pack. Actual Costs	Sold Qty	Sales	Var. CoS	Pack. Costs per Sold unit *100	Pack. Costs vs Sales %	Pack. Costs vs Var. CoS %
Material (Prod.)		EUR	VKG	EUR	EUR			
55394	ZEOSIL 1165MP BB 700 KG / WOOD PAL	76,66	33 750	30 5,75	13 ,99	,85	,6	,3
101441	ZEOSIL HRS 1200 MP BB 750 KG/ RETURN PAL	70,27	323 ,660	541 5,57	131 ,03	,74	,6	,8
135357	ZEOSIL 195MP BB 750 KG / ONE WAY PAL	19 617,81	35 999,720	43 451,71	14 650,32	54,49	45,1	-133,9

1. Pack. Costs per Sold unit * 100 : Pack. Actual Costs (a) / Sold Qty (b) => Actual packaging cost for 1 unit of product sold
2. Pack. Costs vs Sales %: Pack. Actual Costs (a) / Sales (c) => Weight of Actual packaging costs compared to related product sales
3. Pack. Costs vs Var. CoS %: Pack. Actual Costs (a) / Var. CoS (d) => Weight of Actual packaging costs compared to related variable costs of sales

Other Screen packaging workbooks

- SCREEN - Pack. Inventory analysis — The aim of Inventory query is to provide users with an helicopter view in qty/value of Packaging stocks in WP1 and PF1
- SCREEN - Pack. Manuf. Consumption analysis — The aim of this query is to provide users with a transversal view of Packaging material consumption in production process in WP1 and PF1
- SCREEN - Pack. Purchasing analysis — The aim of Purchasing query is to provide users with a transversal view in qty/value of Packaging Materials purchasing in WP1 and PF1