

RES KA Inventory

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Summary description

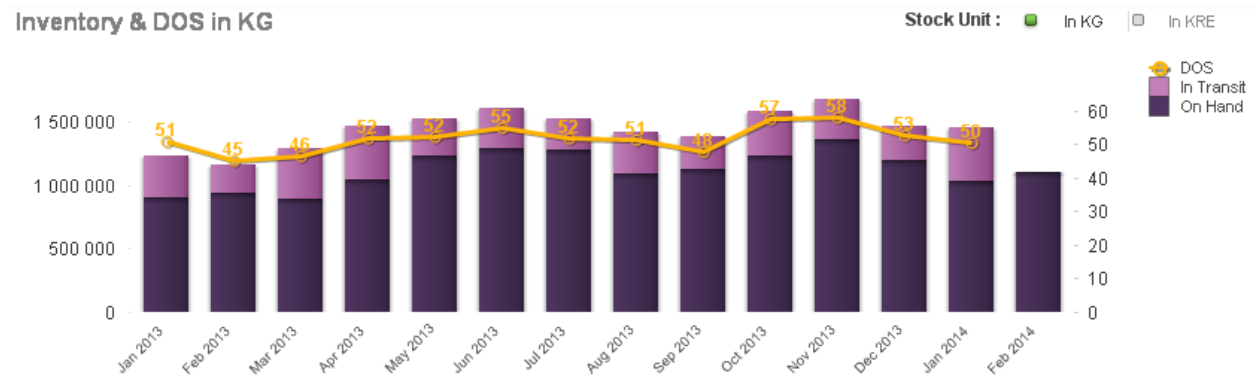
The "Inventory DOS" tab combines several indicators:

- The Inventory: the total inventory at the end of each month, in KRE or KG, with detail of transit/on hand.
- The Days of Supply (DOS): the number days of sales the inventory is worth (i.e.: how many days in average it the inventory would last)
- The average sales quantity over 3 months (i.e. $\text{sum}(M + M-1 + M-2) / 3$)

Detailed description

Displays

Graphic



Graphic shows:

- In bar the quantity in stock :
In KG or KRE (unit can be selected on the top right side of the graph).
With split of the quantity by "in Transit" and "On hand".
Scale is on the left Y axis.
- In line, the Days of Supply (DOS).
In days.
Scale is on the right Y axis.

Detail Table

	Jan 2013				Feb 2013			
 Ship to KA 	Stock Qty KG	Stock Qty KRE	Avg Sales 3M Qty	DOS	Stock Qty KG	Stock Qty KRE	Avg Sales 3M Qty	DOS
Total	1 233 515	1 033 832	736 239	51	1 167 324	1 019 581	787 565	45
JOHNSON MA...	357 225	354 623	266 581	41	315 753	313 367	296 505	32
BASF	323 687	306 972	111 289	88	317 221	301 233	119 929	80
TOYOTA	235 292	235 292	115 317	62	275 586	275 586	111 212	75
UMICORE	111 739	111 739	102 898	33	101 378	101 378	95 277	32
PSA PEUGEOT ...	110 510	6 790	97 138	35	129 885	7 977	104 156	38
MICHELIN	79 741	5 406	19 916	122	5 024	417	39 880	4
SIEMENS	3 520	2 914	14 760	7	4 020	3 414	15 967	8
GENERAL EL...	2 561	1 792	2 607	30	9 856	9 087	0	-

Table shows 4 figures:

- The inventory at end of the period in KG.
- The inventory at end of the period in KRE
- The average sale quantity for shown month and 2 previous ones (Ex : For Jan 2013, it will show sum(Jan 2013 + Dec 2012 + Nov 2012)/3)

1. cyclic on the left side of the table allows changing the main analysis axis.

Stock Qty (KRE and KG)

Time dimension

The only time dimension available is the Month It is the date of the inventory snapshot. The inventory shown for each period is the inventory at the end of each period.

Ex: January inventory will be the inventory as of 31th January at 23h59. 2013 inventory will be the inventory as of 31 December 2013 at 23h59.

Note that for transit data, the quantity shown will be the balance at the end of the selected period.

Other Dimensions

The following dimensions are available for this indicator:

Legal Entity	Company owning the goods
Plant	Plant storing the goods (for on hand) or plant of the transit
Material	Material number
Product	Commercial product
Valuation Class	Classifies stock into Finished goods or trading goods.
Mat. Ent. Grp	Classification of materials in "Material Enterprise Groups"
Mat. Ent. GrpSub	Classification of materials in "Material Enterprise Sub Groups"
GL Acc WC Sub Type	Classification of stock into "On Hand" or "In transit" (see specific chapter below)
Ship to KA	See chapter on Stock by KA assignment special rule On Hand/Transit

The classification between the On Hand and In Transit is done via the source of the data:

- Data from SAP MM is classified as "On Hand". It corresponds to all the stocks physically in the plant.
- Data from SAP FI is classified as "In Transit". It corresponds to the General Accounts :

37000300 - GOODS FOR RESALE IN TRANSIT

37000305 - FINISHED PRODUCT IN TRANSIT

Filters

- Only Rare Earth GBU materials are shown. The GBU is defined by the profit center of each material/plant following the standard structure :

Material+Plant Profit Center VS CGU BU GBU

- Only Finished Products and Traded Products are included. Valuation class included are :

Z150 – Finished Product

Z130 – Trading goods

- Both on site (MM) and transit (FI) inventories are included.

Assignment of the Ship to KA

Normally inventory is not assigned to a dedicated customer in the system (even if sold to a single customer). For this dashboard, it was necessary to assign this stock by Key Account since otherwise it would be impossible to measure the DOS by Key Account.

Example: Material 11224 has 160kg in inventory. But in SAP, this is not assigned to Key Account.

Material	Stock Qty KG
000000000000011214	160

To assign a Key Account to each Material, a special rule is used:

1. By looking for the total sales quantity in KG of each material / Ship to KA over Y and Y-1.

Material	Ship to KA	Stock Coeff	Qty Sold (KG)
000000000000011214	AMPERE	0,16	80
	BASF	0,32	160
	DIVERS APRES...	0,52	260

1. A "Stock Coeff" is calculated to measure the portion of sales for each Ship to KA.

Material	Ship to KA	Stock Qty KG	Stock Coeff
000000000000011214	AMPERE	26	0,16
	BASF	51	0,32
	DIVERS APRES...	83	0,52

You can check this stock coefficient in the "My Report" tab by:

- Selecting the "Month" as the time dimension (Year/Quarter do not work for inventory)
- Selecting Dimensions "Material" and "Ship to KA".
- Selecting KPI "Stock Coeff"

Example:

Custom Table			
Time Dimension	Material	Ship to KA	Stock Coeff
	00000000000000...	BASF	1,00
	00000000000000...	-	1,00
	00000000000000...	AMPERE	1,00
	000000000000011 149	AMPERE	0,26
		BAIKOWSKI	0,01
		BRENTAG	0,02
		CARL ZEISS	0,26
		DIVERS APRES...	0,38
		QUIMIALMEL	0,07

Conversion

The data is extracted in base unit of measure from RCS and then a conversion is applied on each material based on the defined standard Alternative Base Unit of measure (In RCS transaction MM03 > Additional Data> Units of Measure).

If a conversion rate was not found, then a 1:1 conversion is applied.

Note that the conversion is not based on the actual rare earth rate of each batch, but on the standard rate.

Example in the MM03 transaction:

Display Material 11094 (/Finished pdt & RM & SF)

← Main Data

Descriptions Units of measure Additional EANs Document data Basic data t.

Material 11094 ERIUM ACETATE 2N5 CRIST NQ 20 KG

Units of measure/EANs/dimensions

X	AUn	M...	<... Y	BUn	Len...	Width	Height	Un...	Volume	Vo...	Gross W.
1	KG	kg	<=; 1	KG	0,000	0,000	0,000		1,500	CD3	1,063
11.023	IR	US	<=; 5.000	KG	0,000	0,000	0,000		0,000		0,000
49	KRE	KR...	<=; 100	KG	0,000	0,000	0,000		0,000		0,000
1	BJ	Bu...	<=; 20	KG	0,000	0,000	0,000		0,000		0,000
1	PL	Pail	<=; 20	KG	0,000	0,000	0,000		0,000		0,000
1	PAL	Pall...	<=; 500	KG	0,000	0,000	0,000		0,000		0,000
1	TO	t	<=; 1.000	KG	0,000	0,000	0,000		0,000		0,000

Target

There is no target for the stock quantity.

Getting the detail

To be able to get the detail of the inventory, in both KRE and KG and with both transit and on hand, you can use the following BW query:

BW_QRY_MPR_IC002_0011 – “BW - WC Stock Detail (Core Query)”.

In order to execute this report, you first need an access to BW with the application “FIWC – Working Capital” and an access by GBU to Rare Earth.

When running the query, apply the filters described above in the Filters chapter.

Average Sales 3M Qty

Time dimension

The month corresponds to the month of invoicing.

Only the month dimension is available for this KPI.

Note that since the KPY shows the average over 3 months, the displayed month is the last one.

Example: 01.2013 Avg Sales 3M Qty will show the average sales qty for 11.2012 and 12.2013.

Other dimensions

Legal Entity	Invoicing company
Plant	Plant that sold the goods.
Material	Material number sold
Product	Commercial product sold
Mat. Ent. Grp	Classification of materials in "Material Enterprise Groups"
Mat. Ent. GrpSub	Classification of materials in "Material Enterprise Sub Groups"
Ship to KA	Key Account
IECRA	Market of the sale (Catalysis etc...)

Ship to code	Customer to whom the goods were shipped
Product Plant	Plant producing the product (based on master data)
Zone	Zone of the Ship to
Country	Country of the Ship to

Filters

- Only Rare Earth GBU sales are considered
GBU code = ZSECT00068
Intra Group sales are excluded.*
Intra Group Flag = N
Some commodities and samples materials are excluded* (see list in the main documentation page).

Conversion

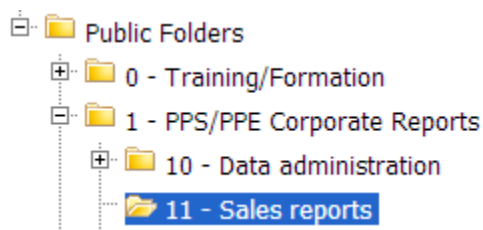
The sales quantity is converted to KG using the standard RCS conversion.

Target

There is no target as this indicator is only used to calculate the DOS.

Getting the detail

The data from this indicator comes from the Business Objects Premier Pilotages Economic (PPE) database.



Most of the reports from the Sales Reports folders can be used to extract the detail of this KPI.

Please make sure you apply the same filters as explained above (Especially on the Intra Group flag and on excluding the list of materials).

Days of Supply (DOS)

Calculation rule

The DOS is calculated directly in the Qlikview dashboard by using the Stock Qty and the Sales quantity:

DOS M = Stock Qty M / (Annualized 3 month sales/365)

= Stock Qty M / ((Sales M + Sales M-1 + Sales M-2)*4/365)

Example:

Example	Stock M	Sale M	Sale M-1	Sale M-2	3M Sales (M + M-1 + M-2)	Annualized sales (3M sales *4)	Avg Daily sales (Annualized/365)	DOS
A	100	100	200	100	400	1600	4.4	23
B	1200	200	50	50	300	1200	3.3	365

In example A, 100 Kg of stocks corresponds, in average, to 23 days of sales.

In example B, 1200 Kg of stocks corresponds, in average, to 1 year of sales.

Time dimension

Like the stocks and the sales qty, the DOS is only available by month.

Dimensions

Because the DSO is the result of a calculation based on 2 other indicators, only some common dimensions will be available for analysis.

Product	OK
Mat. Ent. Grp	OK
Mat. Ent. GrpSub	OK
Ship to KA	OK – Stock KA is assigned via special rule mentioned above
Company	Careful - Meaning is different for stock (company storing) and sales (company invoicing)
Plant	Careful - Meaning is different for stock (Plant storing) and sales (Plant selling)

Target

There is no target.