

# BW - Turn - 91 days (Core Query)

## Basic Information

<b>BW Server</b>	WBP
<b>Application</b>	IM Stocks
<b>Query Name</b>	BW - Turn - 91 days (Core Query)
<b>Query Technical Name</b>	BW_QRY_MPR_IC001_0029
<b>Core/Specific Scope</b>	Core - Can be used by everyone.
<b>Provider Name</b>	Material Stock MPR_IC001
<b>Usage type</b>	Direct execution via Analysis
<b>Expected users</b>	Supply chain

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## Purpose of this query

The objective of this query is to display the inventory turnover (Turn) and days of supply (DOS) to identify materials in inventory that have a slow turnover and then take action.

In this query, the turnover is calculated based on the stock issues of the past **91 days**.

The reason this query was created was because some users wanted a TURN that could be updated daily (instead of having to wait the end of the month to run the 3 month version of the query).

This query can be run any time during the month by selecting the current date.

## Important information

- This query calculates the **Turnover at plant boundaries**.

This query cannot be used to calculate a turnover at GBU or company level since transfers from one plant to another are considered as stock issues.

- As the objective of the report is to identify slow moving stocks, **movements related to scrapping are excluded from the issues** (otherwise scrapped materials will show with a good turnover).
- **Transfers inside the plant (from one storage location to another storage location) are excluded from the issues.**

## Variables screen

Variable Name	Authorization Object	Description
Company Code	Yes	The company code owning the stock
Day of analysis	No	The date used for the end of the 91 days



### Current month

Careful : if you select a date in the future, the TURN will be incorrect as the stock issues will be under-evaluated.

## Filters

Object	Filter Value	Explanation
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Infoprovider	<> CUB_COPC1 Material Prices	This so that the data from the material prices cube are not included in this query (not needed)
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## Characteristics

The list below only describes the characteristics which may need explanations :

Characteristic Name	Characteristic code	Explanation
Calendar Day	OCALDAY	Careful when using this characteristic in this report : For the stock issues this is the date of the movement. For the stock level this is the date for the stock qty/value
1 - Enterprise	C_MATPLNT__C_PFC1	GBU

## Key Figures

### DOS

#### Description

Days of supplies calculated for the 91 days period. It's the number of days of supplies left considering the inventory value at day D and the average stock issues between days D-90 and D.

#### Calculation rule detail

It's the number of days in the year divided by the turnover.

$$\text{DOS} = 365 / \text{TURN}$$

#### Example

If you have turnover is 365 , then DOS will be  $365/365 = 1$  --> You only have stock for 1 more day.

If you have a turnover of 100, then DOS will be  $365/100 = 36.5$  --> You have 36,5 days of stock left.

if you have a turnover of 1, then DOS will be  $365/1 = 365$  --> You have 1 year of stock left.

### Turn

#### Description

Inventory Turnover for the day D. It's calculated based on the value of the annualized stock issues of the D-90 to D period and the inventory value at the end of day D.

#### Calculation rule detail

$$\text{Turn} = (\text{Stock Issues D-90 to D}) * 4 / (\text{End of D stock value})$$

#### Example

You want to calculate the TURN :

- During the last 91 days, you had 1.000\$ of stock issues so your annualized stock issue is 4.000\$.
- At end of day D, the inventory value was 10.000\$
- Your turn will be  $10000/4000 = 2.5$  --> In 1 year, your inventory is "turning" 2,5 times if you keep the same issues as in the last 91 days.

### Issued Stock - Annualized

#### Description

It's the amount of the stock issues between D-90 and D multiplied by 4 (annualized).

Amount is in thousands (Kilo currency).

Are considered issues the following material movement types :

[122] RE return to vendo	[601] GD goods issue:delv
[123] RE rtm vendor rev.	[602] RE goods deliv. rev.
[161] GR returns	[621] GI ret.pack.:lending
[162] GR rtms reversal	[622] GI ret.pack:ret.del.
[201] GI for cost center	[631] GI consgmt: lending
[202] RE for cost center	[632] GI consgmt:ret.delv
[221] GI for project	[633] GI iss: cust.consgmt
[222] RE for project	[634] GI rcpt:cust.consgmt
[231] GI for sales order	[641] TF to stck in trans.
[232] RE for sales order	[642] TR to stck in trans.
[251] GI for sales	[643] TF to cross-company
[252] RE for sales	[644] TR to cross-company
[261] GI for order	[645] TF cross company
[262] RE for order	[646] TR cross company
[543] GI issue sls.ord.st.	[647] TF to stck in trans.
[544] GI receipt sls.or.st	[648] TR to stck in trans.

## Calculation rule detail

Issued Stock - Annualized = Sum of the material movements between D-90 and D, considering only the Issue movement types (list above). Then multiply by 4 to annualize.

**Note that transfers inside the plant as well as scrapping are not considered as issues.**

## Stock Value D (K Currency)

### Description

This is the value of the inventory at the end of the selected date in thousands and local currency.

### Calculation

No calculation. This comes directly from SAP.

## Valuaed Stock Qty

### Description

This is the quantity of the inventory at the end of the selected D date in thousands and local currency.

It's not actually used in the query calculations but only there for you to verify.

It includes the quantity for material that are valuated (materials with a value of 0 are not included).

### Calculation

No calculation. This comes directly from SAP.

### Currency Conversion

There is no currency conversion in this query as it's intended to be used usually for a single plant or single legal entity.

## Conditional Formatting

See how to use in the [Formatting](#) page.

Condition Name	Rule
TURN <> 0	Shows only the lines for which the TURN is not equal to 0
TURN = 0	Shows only the lines for which the TURN is equal to 0 (Usually materials with 0 inventory)

## FAQ

### Question : What does the X value mean in DOS ?

A "X" value in BW means that the calculation couldn't be done due to a division by 0. In the case of the DOS, it means the TURN was equal to 0.

### Question : How can I remove all the lines where TURN is empty (Lines where the material has no stock) ?

You can activate one of the BEX Conditions to filter on the data

