



# CJC™ Off-line Fine Filter Insert BM 27/27, used in CJC™ Filter Units for Symetro Gears

## APPLICATION

The type BM fine filter insert is manufactured specially for CJC™ Filter units employed in cement mill gear applications, using either mineral or synthetic gear oils.

The BM insert is universal and is ideal in all types of CJC™ Filter Units mounted on FLS Symetro Gears.

## FILTRATION CAPABILITY

All CJC™ Filter Inserts have a filtration degree of 3 µm (micron) absolute (equiv. to 0.8 µm nominal) i.e. 98.7 % of all solid particles >3 µm and approx. 50 % of all particles >0.8 µm are retained in each pass.

The dirt holding capacity of a new BM 27/27 filter insert is 4 litres, which is double the capacity of its predecessor, the A 27/27 filter insert.

The water absorption potential is up to 50% (i.e. 2,000 mL H<sub>2</sub>O) of the total contaminant holding capacity.

## DIMENSIONS

The figures below are nominal.

Diameter: 27 cm  
Height: 27 cm  
Weight: 4 kg

## COMPONENTS

CJC™ BM Fine Filter Inserts consist of bonded discs made from:

Wood cellulose  
Cotton linters  
Polyamin  
Foammaster  
Urethan glue



The anticipated increase in differential pressure ( $\Delta P$ ), measured in **bar**, across one new BM 27/27 filter insert is:

FLOW	VISCOSITY				
	100 cSt	200 cSt	300 cSt	400 cSt	500 cSt
200 L/h	0.15	0.30	0.48	0.64	0.80
400 L/h	0.30	0.65	0.96	1.28	1.60
600 L/h	0.50	0.95	1.44	1.92	2.40
800 L/h	0.65	1.30	1.92	2.56	3.20

*To calculate the total increase in differential pressure, divide the viscosity with the number of filter inserts in a filter housing.*

As a result of its the new design the BM insert can successfully filter oils of high viscosity and consequently operate more efficiently at low oil temperatures.



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