



CLEAN OIL
BRIGHT IDEAS

Gear Filter insert, GFi 27/27

CJC™ Oil Filtration & Flushing insert for Wind Turbine Gearboxes

CJC™ Product Sheet

APPLICATION

The CJC™ Gear Filter insert, GFi 27/27 is specially designed for filtration and flushing of wind turbine gears. The CJC™ GFi 27/27 has a high capacity for submicron particles and is documented to remove considerable amounts of particles down to the size of 0.1 microns.

The filter insert is optimized for high performance in:

- air-containing oil
- variable temperature conditions
- used oil

This filter insert is applicable for viscosities in the range ISO VG 320-480 cSt.

FILTRATION CAPABILITY

• Particle Removal

The CJC™ GFi 27/27 has been designed for efficient removal of both hard and soft particles. Particles above approx. > 1 microns are removed by mechanical filtration, smaller particles < 1 micron are removed primarily by means of Van der Waal forces and electrochemical forces.

Filtration degree:

21 µm absolute:	> 99.9 % of all solid particles	> 21 µm
6 µm absolute:	> 99.5 % of all solid particles	> 6 µm
4 µm absolute:	> 99.0 % of all solid particles	> 4 µm
2 µm absolute:	> 80.0 % of all solid particles	> 2 µm
1 µm absolute:	> 50.0 % of all solid particles	> 1 µm
0.1 µm absolute:	> 10.0 % of all solid particles	> 0.1 µm

• Degradation Products

Oxidation by-products, resin/sludge, used additives and wax formations are retained by the cellulose material. The cellulose will absorb and adsorb up to approx. 1 kg of soluble oxidation products. Used wind turbine oil will typically contain a small amount of highly catalytically active atomic iron (Fe). The CJC™ cellulose combination has been documented by ICP analysis to effectively reduce the amount of free iron in oil.

• Water Removal

The CJC™ GFi 27/27 will remove large amounts of free water if present in the oil, in documented cases up to 4000 ml of water. Please refer to the CJC™ Water/Cellulose/Oil Equilibrium datasheet for specification of the removal capacity of dissolved water.

DIMENSIONS

The figures below are nominal:

Diameter:	27 cm (10.6")
Height:	27 cm (10.6")

COMPONENT

The CJC™ GFi 27/27 consist of bonded double discs consisting of 4 different types of cellulose fibres. Each type of fiber performs a special function in terms of filtration and conditioning of the oil. Due to the large internal surface area of the cellulosic fibers the CJC™ GFi 27/27 has the capability of acting as a free radical scavenger thus reducing the degradation rate of the oil.

IDENTIFICATION

To order the CJC™ GFi 27/27, please use:

Article No:	
1 x GFi 27/27:	PA5601365



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