



CLEAN OIL  
BRIGHT IDEAS

# Gear Flushing insert, GFi 27/27

## CJC™ Oil Filtration & Flushing insert for Cleaning of Gearboxes

### CJC™ Product Sheet

#### APPLICATION

The CJC™ Gear Flushing insert, GFi 27/27 is specifically designed for filtration and cleaning of gearboxes. The CJC™ GFi 27/27 has a high capacity for submicron particles and is documented to remove considerable amounts of particles down to 3 microns or even lower, with improved efficiency over the standard CJC™ Filter Inserts.

#### BENEFITS

The CJC™ Gear Flushing insert is optimized for high performance in:

- large dirt holding capacity
- air-contaminated oil
- variable temperature conditions
- used oil

This flushing insert is applicable for viscosities in the range of 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. > 3 microns are removed by mechanical filtration, smaller particles < 3 microns 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

##### • Oil 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 removes large amounts of free water if present in the oil, normal up to 2,000 ml. In some documented cases, even up to 4000 ml of water. Please refer to general **Water/Cellulose/Oil Equilibrium** information for specification of the removal capacity of dissolved water.



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#### DIMENSIONS

The figures below are nominal:

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

#### COMPONENT

The CJC™ GFi 27/27 consists of bonded double discs composed 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 cellulose 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:

<b>Article No:</b>	
1 x GFi 27/27:	PA5601365