

CJC® Filter Inserts, type EC

Specially designed for adsorption of oil degradation products and reducing acidity

CJC® EC FILTER INSERTS

CJC® EC Filter Inserts are made for adsorption of oil degradation products, reducing varnish and acidity and increasing the resistivity of the oil. EC Filter Inserts contain Fuller's Earth, a natural adsorbent primarily of aluminium silicates (clay minerals). Its large surface area enables enhanced non-selective adsorption of oil contaminants such as acidic oil degradation and oxidation by-products, resins, sludge, and varnish. The EC Filter Inserts may be used to remove varnish and acidic oil degradation products from high temperature oil and thus reduce the TAN and MPC values.

The EC Filter Inserts must be used in combination with CJC® cellulose Filter Inserts as post filters, either in the last stage of a CJC® HDU multi stay Filter or in a CJC® HDU single stay Filter using hybrid Filter Inserts.

Applicable in the following oils:

- Mineral oil
- Hydraulic fire resistant fluids (HFD)
- Glycol oil - Polyalkylene glycols (PAG)
- Ester oil - Polyolester oil (POE), Phosphate Ester oil, Environmentally acceptable Lubricants (EAL) and biodegradable oils

Used in the following applications:

- Transformer insulation
- Gear and bearing lubrication
- Hydraulic systems
- Compressor lubrication
- Turbine lubrication
- Engine lubrication

The CJC® EC Filter Inserts are available in three different versions:

- EC 15/25 (100% Fuller's Earth)
- EC 27/27 (100% Fuller's Earth)
- A Hybrid version consisting of EC Fuller's Earth media and a CJC® cellulose 15/25 Filter Insert.

COMPONENTS & PACKAGING

CJC® EC Filter Inserts consist of polyester needle felt bags filled with Fuller's Earth natural clay material consisting of Attapulgites.

EC Filter Inserts are supplied in vacuum sealed bags to keep them dry and protected. They must only be unpacked immediately before installation and use.

IDENTIFICATION & WEIGHT

To order the EC Filter Inserts, please use:

Article No.:

- 1 x EC 15/25: PD5600616 (2.7 kg / 6 lb)
- 1 x EC 27/27: PA5600606 (6.2 kg / 13.7 lb)
- 1 x ECAK 27/25: PD5600619 (5.6 kg / 12.3 lb)
- 1 x ECBG 27/25: PD5600625 (5.8 kg / 12.8 lb)
- 1 x ECBK 27/25: PD5600627 (5.6 kg / 12.3 lb)
- 1 x ECGFi 27/25: PD5600628 (6.3 kg / 13.9 lb)



USER BENEFITS

- ▶ **Reduction of TAN and MPC, Increase of Resistivity**
CJC® EC Filter Inserts adsorb acidic oil degradation products and varnish, lower MPC and TAN and increase the Resistivity of the oil.
- ▶ **Prolonging the oil life time and avoiding oil change**
CJC® EC Filter Inserts eliminate oil contaminants and oxidation catalysts, restore and maintain the oil in good condition.
- ▶ **Preventing failures and mitigating risk of downtime**
Clean oil ensures reduced wear, extended component lifetime and lower O&M costs.

USER RECOMMENDATIONS

- ▶ **Oil filtration - post filter**
The CJC® EC Filters must always be used in conjunction with CJC® cellulose Filter Inserts as post filter to ensure removal of solid contaminants from the fluid, and to avoid Fuller's Earth entering the oil system by mistake. The EC hybrid Filter Insert can be installed and used directly in a single stay HDU 27/- housing.
- ▶ **Installation**
CJC® EC Filter Inserts must be installed according to the filter replacement instruction guides using the original filter spring guides and filter plates.
- ▶ **Service and Replacement**
CJC® EC Filter Inserts are consumables, they cannot be cleaned and must be changed regularly. They must not be operated longer than 12 months. To ensure optimal efficiency and best results it is recommended to replace EC Filter Inserts every 3- 6 months. Pressure drop across the EC Filter Insert may not necessarily increase over time when saturating and gradually losing its capacity.
- ▶ **Water in the oil**
The presence of water in the oil reduces the efficiency of CJC® EC Filter Insert and may lead to unwanted reactions and metal soaps in the oil. In case high water levels are detected we recommend drying the oil using CJC® MS Filter Inserts, CJC® Desorber or CJC® PTU water removal units prior to using EC Filter Inserts.
- ▶ **Fuller's Earth - 100% natural**
The CJC® EC Filter Insert media is a natural product. Due to the nature of the raw material it is not possible to guarantee exact reproducibility. Slight performance variations may occur from batch to batch.