

CJC® Filter Inserts, type EL

Specially designed for elimination of oil degradation products and reduction of acidity

CJC® EL FILTER INSERTS

The CJC® EL Filter Inserts are used for removing oil degradation products, reducing varnish and acidity and increasing the resistivity of the oil. EL Filter Inserts contain ion exchange resins for selective ion exchange reactions. The EL Filter Inserts may be used to remove varnish and acidic oil degradation products from synthetic oils and thus reduce the TAN and MPC value. They are ideal for removing acids created during hydrolysis of ester oils.

The EL 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:

- 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:

- Gear and bearing lubrication
- Hydraulic systems
- Electro-Hydraulic control (EHC) of Steam Turbines
- Compressor lubrication
- Turbine lubrication
- Engine lubrication

The CJC® EL Filter Inserts are available in four different versions:

- EL 15/25 (100% ion exchange resins)
- EL 27/27 (100% ion exchange resins)
- ELBK (A Hybrid version consisting of EL Ion exchange media and a CJC® 15/25 Filter Insert)
- ELS 27/25 (Ion exchange resin beads with steel inlet to be combined with various dried CJC® cellulose Filter Inserts)

COMPONENTS & PACKAGING

CJC® EL Filter Inserts consist of polyester needlefelt bags filled with ion exchange resins.

EL 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 EL Filter Inserts, please use:

Article No.:

- 1 x EL 15/25: PD5600609 (2 kg / 4.4 lb)
- 1 x EL 27/27: PD5600608 (4 kg / 8.8 lb)
- 1 x ELBK 27/25: PD5600615 (4 kg / 8.8 lb)
- 1 x ELS 27/25: PD5600623 (4 kg / 8.8 lb)



EL 15/25

EL 27/27

ELBK 27/25

ELS 27/25

USER BENEFITS

- ▶ **Reduction of TAN and MPC, Increase of Resistivity**
CJC® EL Filter Inserts eliminate 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® EL Filter Inserts eliminate oil contaminants and degradation 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® EL Filters must always be used in conjunction with CJC® Cellulose Inserts as post filter to ensure removal of solid contaminants from the fluid, and to avoid EL beads entering the oil system by mistake. Due to its hygroscopic nature and the risk of releasing humidity, the EL Filter Inserts are best used in combination with specially dried CJC® cellulose Filter Insert or CJC® MS Molecular Sieve Filter Insert. The EL hybrid Filter Insert can be installed and used directly in a single stay HDU 27/- housing.
- ▶ **Installation**
CJC® EL 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® EL Filter Inserts are consumables, they cannot be cleaned and must be changed regularly. It must not be operated longer than 12 months. To ensure optimal efficiency and best results it is recommended to replace EL inserts every 3- 6 months. Pressure drop across the EL Filter Inserts may not necessarily increase over time when saturating and gradually losing its capacity.
- ▶ **Water in the oil**
The presence of water in the oil facilitates the ion exchange reaction and thus enhances the EL efficiency. In case high water levels are detected after the EL Filtration, we recommend drying the oil using CJC®MS Inserts or CJC® Desorber water removal units.