



ICB® ION-EXCHANGE FILTER

Industry-leading patented ion-exchange technology offering unmatched performance in industrial lubricants and fluids

OVERVIEW

Patented ICB® ion-exchange filters are manufactured with one goal in mind: to remove the dissolved oxidation molecules that accumulate and cause mechanical problems in bearings, seals and servo valves. These filters are engineered workhorses, combining best-in-class chemistry and materials with precision robotic welding to provide the most robust and highest performing filter available on the market. ICB filters offer a step-change in oil performance, protecting system reliability and production with many benefits beyond acid and particulate removal.

ICB ION-EXCHANGE FILTER FEATURES AND BENEFITS

- Industry-leading ion-exchange filters that offer unmatched performance in the removal of acids, varnish and dissolved oxidation molecules responsible for:
 - + slow or sticking servo valves
 - + bearing deposits
 - + bearing failures
 - + other mechanical issues that would otherwise result in production losses
- Removes the underlying cause of varnish and removes existing deposits by restoring fluid solubility, shifting chemical equilibrium back towards the original fluid condition
- 100% effective under normal turbine operating conditions when varnish is dissolved in the oil
- Restores fluid's electrical properties protecting mechanical components
- Creates stability within lubricant and fluid systems, mitigating premature deterioration
- Complete stainless-steel construction featuring robotic, spiral welding which provides maximum filter integrity
 - + Filter pressure tested to 150 psid
- Compatible with phosphate ester fluid (FRF), aeroderivative turbine oil, rust and oxidation turbine oil and anti-wear hydraulic oil



ICB ION-EXCHANGE FILTER BY LUBRICANT TYPE

While originally developed for phosphate ester fluid back in 1992, EPT Clean Oil has expanded the capabilities of ICB filters to accommodate a wide range of lubricants, fluids and additive types.



Meet ICB RO - for Rust & Oxidation Turbine Oil

ICB RO removes varnish precursors and dissolved breakdown products on a continuous basis, breaking the accumulation cycle and eliminating the root cause of varnish formation.



Meet ICB FRF - for Phosphate Ester Fluid

ICB FRF is designed to address phosphate ester chemistry, removing acids, phenols and varnish while simultaneously improving resistivity, preventing EHC failures.



Meet ICB JET - for Aeroderivative Turbine Oil

ICB JET removes acids, oil coking precursors and dissolved by-products on a continuous basis breaking the accumulation cycle and eliminating the root cause of deposit formation.



Meet ICB AW - for Anti-Wear Hydraulic Oil

ICB AW selectively removes varnish and varnish feedstocks continuously breaking the accumulation cycle, and preventing varnish problems all together.

PACKAGING

Available in standard sized filter cartridges or as part of a complete lubricant or fluid treatment system.

