



Description

AR2100 is formulated from organic esters as an additive for thermic fluids to dissolve carbon and varnish and maintain a carbon free system in high temperature environments. Also offers excellent protection for pumps, valves and seals.

AR2100 is made up of three ester groups and a Nanoborate friction modifier. The lanolin ester is the main cleaning agent. Its function is to impregnate the surface of varnish and coked-up deposits.

The second is an aliphatic ester. Its function is to provide for better film forming of the host oil, eliminating the potential of dry spots in the oiling system, during the cleaning process. This component is also very resistant to oxidation and is a supplement to the host oil while contaminants are being removed and deposited in the filtration media.

The last ester is a biodegradable, polyol ester, which provides extreme pressure capability to the host oil. Utilizing heat, pressure, and flow generated within the oiling system, AR2100 safely and effectively dissolves deposits. Because these deposits were formed slowly over time; they should be cleaned and removed slowly and methodically.

Nanoborate in an ester matrix base compliments its sister esters assisting in cleaning and forming a uniform new surface on the metal alloy filling in all asperities and creating an extremely low COF of 0.037. This new surface protects against further carbon buildup.

The ester combination provides polarity to the host oil, giving the thermic fluid an attraction to metal surfaces reclaiming these surfaces from contamination and maintaining them from further contamination.

Benefits

TECHNICAL BENEFITS

- ✓ Removes carbon build-up gradually
- ✓ Adds extremely low coefficient of friction to tubes internals
- ✓ Prevents new carbon build up
- ✓ Lubricates pumps and valves in system
- ✓ Keeps TAN value stable for many years
- ✓ Withstands extreme temperatures

OPERATIONAL BENEFITS

- ✓ Hot swap application
- ✓ Keeps tubular system free from corrosion and carbon build-up
- ✓ Factor 3 less downtime
- ✓ Generally no system fluid drains necessary anymore
- ✓ Restores fluid condition

FINANCIAL BENEFITS

- ✓ Up to 60% lower cost of fluid replacement
- ✓ Factor 3 less downtime of system
- ✓ Less to none stops for replacements for tubes or pipes
- ✓ Less insurance costs due to stable TAN values
- ✓ Restores existing system fluid, no replacement needed



Areas of use

- ✓ Ships
- ✓ Rigs
- ✓ Powerplants
- ✓ Thermic oil systems
- ✓ Hydraulic systems
- ✓ EP systems

Directions of use

- ✓ No specific measurements for transportation required.
- ✓ Air transportation allowed.
- ✓ Wear goggles and gloves whilst working with Archoil AR2100
- ✓ Mixing ratio is 5-10 % of the total system volume, depending on operating temperatures and system pollution.
- ✓ Flashpoint 210°C, Auto-ignition +400°C.
- ✓ Archoil AR2100 can be added through expansion vessel during operation.
- ✓ Store Archoil AR2100 in dry conditions.
- ✓ Archoil AR2100 can be stored for 2 years. Keep opened packaging firmly closed.
- ✓ Store Archoil AR2100 at temperatures between 5° C and 30° C.
- ✓ Archoil AR2100 is available in 5L, 20L, 208L of 1000L packagings.

TYPICAL PROPERTIES

- ✓ **Brown, opaque fluid**
- ✓ **Gravity 0.926**
- ✓ **Flashpoint 210°C, Auto-ignition +400°C**
- ✓ **Viscosity ISO VG46**

Project reports on tanker vessel and food plant available. Please ask for project reports regarding Archoil AR2100 at your preferred distributor.