



Lyden Oil Company

ProGuard

Product Information

ProGuard Altra Advantage FR 46

ProGuard Altra Advantage FR 46 is a next-generation water glycol hydraulic fluid based on a patent-pending technology. It can be used in a wide variety of industrial hydraulic systems. It offers excellent fire protection under the most severe hazard conditions. It has been optimized with a new, high performance additive package to protect from corrosion in both vapor phase and in the liquid phase on most metals, and is morpholine-free.

The key benefit to **ProGuard Altra Advantage FR 46** is its outstanding shear stability compared to traditional water glycol fluids. This will reduce maintenance requirements for the fluid, as it will protect equipment for longer periods. This fluid exhibits excellent performance in the Vickers Vane pump test.

ProGuard Altra Advantage FR 46 will perform in a variety of hydraulic pumps within rated conditions:

- Various OEM Vane Pumps
- Various OEM Gear Pumps
- Various OEM Piston Pumps

Typical Characteristics:

ProGuard **Altra Advantage FR 46**

Appearance	Red Liquid
Viscosity, ASTM D-445 cSt. At 40° C	42.6
Viscosity Index	195
Specific Gravity, ASTM D-1298	1.082

Lyden Oil Company

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Typical Characteristics (cont.):

Pour Point, ASTM D-97, °C	-50
Reserve Alkalinity, to pH 5.5	160-180
pH, ASTM D-70	9.5
Vickers Vane Pump Test, ASTM D-7043 mg weight loss of ring and vanes	10-15
Copper Corrosion, ASTM D-130 6 hours	1a
24 hours	1b
Foaming Characteristics, ASTM D-892 Sequence I	10/0
Sequence II	10/0
Sequence III	10/0
Rust Test, ASTM D-665	Pass

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