



FRH 46

High-pressure and high-temperature environments require water soluble hydraulic fluids that can get the job done right, while delivering a superior level of fire protection under stress. KOST USAs comprehensive line of AchievAL® Fire Resistant Hydraulic Fluids deliver the ultimate performance, durability and protection needed to keep your critical equipment up and running. It's what your system demands.

AchievAL® FRH 46 offers excellent pump lubrication and anti-wear characteristics resulting in optimum hydraulic system performance and extended pump life. It's Factory Mutual approved as a less hazardous fluid and can be used in or near fire hazard applications.

AchievAL® FRH 46 Offers the Following Advantages:

- · Outstanding fire resistance properties, providing a safer work environment.
- Superior corrosion protection, extending equipment life
- Excellent shear stability and anti-wear protection, helping reduce downtime
- High viscosity index, low pour point, excellent heat transfer and anti foam performance
- Minimum pump and valve wear when used in accordance with OEM recommendations
- · Higher viscosity for a wide range of applications and reduced inventory costs
- Storage stability for easy handling in the warehouse and reduced waste
- Compatibility with other FRH water-glycols, permitting top-off to begin immediately

AchievAL® FRH 46 meets or exceeds these Performance Requirements with the following Test Methods:

FM Approvals 6930 - ASTM D7043

AchievAL® FRH 46 is recommended for use in the following applications: Steel Mills, Die Casting, Forging, Aloy Mills, Foundries, Mining, Automatic Car Washes

Typical Properties	FRH 46	FRH 252
Color	Red	Red
Viscosity at 40°C (104°F)	46	270
Viscosity Index at 200 cSt	215	N/A
Specific Gravity, 68°F (20°C)	1.08	1.102
Density, 68°F (20°C)	8.96	9.19
pH	9.5	9.5
Reserve Alkalinity	20	30
Pour Point	-71°F (-57°C)	N/A

Pressure		2000 psi				
Fluid Temperature	150°F					
Time	100 Hours					
Pump Wear Results	T1	T2	T3	AVG		
Weight Loss, Ring (mg)	2.4	2.4	5.2	3.3 ^R		
Weight Loss, Vanes (mg)	7.5	8	8.7	8.1 ^v		
Total Weight Loss (mg)	9.9mg	10.4	13.9	11.4		
R +/- 1.3 mg Standard Deviation V +/- 0.5 mg Standard Deviation						

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Testing Conditions

Shipping Info	FRH 46	FRH 46	FRH 46	FRH 252	FRH 252	RA Inhibitor
Part Number	13475	13473 13476	13209	13477	13210	10320
Size	55-G DRUM	275 330 G TOTE	Bulk	55-G DRUM	Bulk	5-G PAIL
Package Dimensions	23.5" x 34.5"	40" x 48" x 46"	N/A	23.5" x 34.5"	N/A	11" x 10" x 14"
Gross Container Weight	≈537 Pounds	≈537 Pounds	N/A	≈537 Pounds	N/A	≈42 Pounds
Gross Weight on Pallet	≈2198 Pounds	≈2198 Pounds	N/A	≈2198 Pounds	N/A	≈2066 Pounds
Quantity Per Pallet	4	1	N/A	4	N/A	48
Pallet Dimensions	45" x 45" x 39.4"	40" x 48" x 46"	N/A	45" x 45" x 39.4"	N/A	48" x 48"x 48"

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