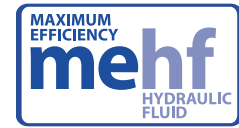


# Maximum Efficiency Hydraulic Fluid Physical Properties:



*What to ask for to insure that you get MEHF performance*

Most suppliers provide technical data sheets for their hydraulic fluids that list the following properties, as well as a number of other critical performance tests.

A fluid designed to deliver full MEHF benefits will have the following viscometric properties.

Test	Test Method	MEHF 32	MEHF 46	MEHF 68	
ISO Viscosity Grade		32	46	68	
Kinematic Viscosity, cSt					
	KV @ 40°C	ASTM D 445	28.8 - 34.2	41.4 - 50.6	61.2 - 74.8
	KV @ 100°C	ASTM D 445	>6.3	>8.2	>11.0
Viscosity Index	ASTM D 2270	>150	>150	>150	
Low Temperature Viscosity Grade	ASTM D 6080	L22	L32	L46	
Fluid Shear Stability*, % KV Loss					
	40 minute sonic test	ASTM D 5621	<10	<10	<10
	KRL roller bearing test	CEC L-45-A-99	<15	<15	<15
<b>More detailed technical information can be found at <a href="http://www.mehf.com">www.mehf.com</a></b>					

\*Fluids can meet the requirements of either shear stability test. A fluid formulated to meet the Denison HF-0 specification will offer this level of shear stability.

## Do other fluid properties matter?

Other fluid properties do not effect hydraulic pump efficiency.

A typical technical data sheet will also offer information about additional fluid performance features, including: oxidation stability, anti-foam and demulsibility tendencies, anti-corrosion, antiwear, flash point, pour point, etc.. Products that deliver MEHF performance should also provide good performance in these areas to ensure long equipment life and consistent operation, please consult your fluid supplier for this additional data.

## Which MEHF viscosity grade do I need?

Please consult your fluid supplier and/or OEM for recommendations on the correct MEHF viscosity grade that is best for your equipment. Fluid must meet the limits for maximum cold temperature viscosity at start-up, as well as minimum high temperature viscosity at peak operating temperature. Climate and oil system cooling/heating capabilities will determine the choice of MEHF viscosity grade. An excellent reference for viscosity grade selection is NFPA Recommended Practice T2.13.13-2002.