



# TECHNICAL DATA SHEET

## MEDALLION™ FM HYDRAULIC OIL

NSF Registered for H-1/KOSHER APPROVED

Medallion™ Food Machinery Hydraulic Oils are blended using a food grade base oil called Excelsior™.

Most base oils used in industrial lubricants are yellow or amber in color. This "discoloration" is caused by a variety of impurities including traces of sulfur, nitrogen and inferior aromatic oils. Nitrogen promotes oxidation and deposit formation. Aromatics have poor oxidation stability. Excelsior™ base oils are colorless and free of these materials. Excelsior™ oil is ideal for use in applications involving food machinery.

In laboratory tests, Whitmore's Excelsior™ base oil shows a major reduction in evaporation loss. Oxidation stability exceeds that of conventional base oils by 60-100%. These performance improvements translate into reduced carbon and varnish deposits. The end result is longer oil and component life.

H-1 registration allows Medallion™ Food Machinery Hydraulic Oil to be used in areas where a nontoxic oil is required. It is recommended for high-pressure hydraulic systems, as well as bearing lubrication.

Medallion™ Food Machinery Hydraulic Oils are produced under the supervision of VA'AD HAKASHRUS of Dallas, Inc. doing business as Dallas Kosher-pareve, and is considered for year-round use including Passover.

Medallion™ Food Machinery Hydraulic Oils meet DIN 51524 part 2.

Contains an NSF-approved preservative that limits the growth of bacteria.

### BENEFITS:

- H-1 RATED - for use in federally inspected meat and poultry plants, as well as beverage and other food processing facilities where incidental food contact may occur.
- ANTIWEAR ADDITIVE - extends equipment life and minimizes downtime.
- EXCELLENT DEMULSIBILITY - separates easily from water.
- RUST AND CORROSION INHIBITED - protects metal surfaces against the effects of moisture and acids.
- EXTENDED OIL LIFE - free of impurities including sulfur, nitrogen and inferior aromatic oils.

### APPLICATIONS:

Medallion™ Food Machinery Hydraulic Oils are recommended for hydraulic applications whenever there is the chance the lubricant may have incidental contact with edible products and need an H-1 rated lubricant. May also be used as a general lubricant when H-1 products are required. Also recommended for air line oilers and low pressure vacuum pumps.

ASTM #		TYPICAL CHARACTERISTICS			
	<b>ISO Grade</b>	32	46	68	100
<b>D-445</b>	<b>Kinematic Viscosity</b>				
	cSt @ 40°C	31	43	64	92
	cSt @ 100°C	5	7	9	11
<b>D-2161</b>	<b>Saybolt Viscosity</b>				
	SUS @ 100°F	155	215	315	485
	SUS @ 210°F	44	48	54	62
<b>D-2270</b>	<b>Viscosity Index</b>	99	102	103	96
<b>D-97</b>	<b>Pour Point, °F (°C)</b>	5 (-15)	5 (-15)	5 (-15)	5 (-15)
<b>Gardner Method</b>	<b>Density, lb/gal @ 60°F (15.5°C)</b>	7.19	7.21	7.26	7.30
	<b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	0.861	0.863	0.869	0.874
<b>D-92</b>	<b>Flash Point, °F (°C) Cleveland Open Cup</b>	400 (204)	410 (210)	425 (218)	440 (227)
<b>D-4172</b>	<b>Four Ball Wear, Scar Width, mm @ 40 kgf</b>	0.30	0.30	0.30	0.30
<b>D-665</b>	<b>Rust Test, Distilled Water</b>	Pass	Pass	Pass	Pass
<b>D-2882</b>	<b>Vickers Vane Pump Wear Test</b>				
	@ 1,000 psi = (mg total loss)	N/A	1.6	1.6	1.6
	@ 2,000 psi = (mg total loss)	N/A	<5	<5	<5
	<b>Color</b>	Water White	Water White	Water White	Water White

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

### PACKAGING

Drums	Pails
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### THE WHITMORE MANUFACTURING COMPANY

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