



# TECHNICAL DATA SHEET

## MEDALLION™ MIRKAVAC™ FM/VR PUMP OIL

Medallion™ Mirkavac™ FM V/R Pump Oils are blended using a new generation 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 convention base oils by 60-100%. These performance improvements translate into reduced carbon and varnish deposits. The end result is longer oil and component life.

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

### 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.
- REDUCES WEAR - minimizes downtime, extends equipment life and lowers operating costs.
- RUST AND CORROSION INHIBITED - protects metal surfaces against oil oxidation and the effects of moisture and acids.
- EXCELLENT DEMULSIBILITY - separates easily from water.
- EXTENDED OIL LIFE – free of impurities including sulfur, nitrogen, and inferior aromatic oils.

### APPLICATIONS:

Medallion™ Mirkavac™ Food Machinery V/R Pump Oils are recommended for low pressure rotary vane vacuum pumps and booster blowers used in food packaging equipment requiring an H-1 rated lubricant.

ASTM #		TYPICAL CHARACTERISTICS		
	ISO Grade	46	68	100
	AGMA Grade	1	2	3
	NSF Registration	H-1	H-1	H-1
D-445	<b>Kinematic Viscosity</b> cSt @ 40°C cSt @ 100°C	43 7	64 9	92 11
D-2161	<b>Saybolt Viscosity</b> SUS @ 100°F SUS @ 210°F	215 48	315 54	485 62
D-2270	<b>Viscosity Index</b>	102	103	96
D-97	<b>Pour Point, °F (°C)</b>	5 (-15)	5 (-15)	5 (-15)
Gardner Method	<b>Density, lb/gal @ 60°F (15.5°C)</b>	7.21	7.26	7.30
	<b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	0.863	0.869	0.874
D-92	<b>Flash Point, °F (°C)</b> Cleveland Open Cup	410 (210)	410 (210)	450 (232)
D-4172	<b>Four Ball Wear</b> Scar Width, mm @ 40 kgf	0.30	0.30	0.30
D-665	<b>Rust Test</b> Distilled Water	Pass	Pass	Pass
D-2832	<b>Vickers Vane Pump Wear Test</b> @ 1,000 psi = (mg total loss)	N/A	1.6	1.6
	@ 2,000 psi = (mg total loss)	N/A	<5	<5
	<b>Color</b>	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	Kegs	Pails
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### THE WHITMORE MANUFACTURING COMPANY

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