# WHITMORE'S

### **TECHNICAL DATA SHEET**

## MEDALLION<sup>TM</sup> MIRKAVAC<sup>TM</sup> 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	Kinematic Viscosity			
	cSt @ 40°C	43	64	92
	cSt @ 100°C	7	9	11
D-2161	Saybolt Viscosity			
	SUS @ 100°F	215	315	485
	SUS @ 210°F	48	54	62
D-2270	Viscosity Index	102	103	96
D-97	Pour Point, °F (°C)	5 (-15)	5 (-15)	5 (-15)
Gardner	<b>Density</b> , lb/gl @ 60°F (15.5°C)	7.21	7.26	7.30
Method	Specific Gravity, g/cc @ 60°F (15.5°C)	0.863	0.869	0.874
D-92	Flash Point, °F (°C)	410 (210)	410 (210)	450 (232)
	Cleveland Open Cup			
D-4172	Four Ball Wear			
	Scar Width, mm @ 40 kgf	0.30	0.30	0.30
D-665	Rust Test			
	Distilled Water	Pass	Pass	Pass
D-2832	Vickers Vane Pump Wear Test			
	@ 1,000 psi = (mg total loss)	N/A	1.6	1.6
	@ 2,000 psi = (mg total loss)	N/A	<5	<5
	Color	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			

#### THE WHITMORE MANUFACTURING COMPANY

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An ISO 9001, ISO/TS 16949, and ISO 14001 Registered Company • <a href="http://www.whitmores.com">http://www.whitmores.com</a>
Performance Under Pressure Since 1893

LIMITED WARRANTY: The Whitmore Manufacturing Company makes the Limited Express Warranty that at the date of delivery, its goods shall be free from defects in Whitmore's materials and workmanship and shall meet the express written statements of quality, if any, made by Whitmore in connection with the sale of the goods. Other than such Limited Express Warranty, there are no express warranties made with respect to the sale of goods and all implied warranties existing under the law are expressly disclaimed and negated, particularly, Whitmore NEGATES AND DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF TINESS FOR A PARTICULAR PURPOSE. All other liability, either in contract or tort, including without limitation, strict liability found in Section 402A of the Restatement of Torts or otherwise, is negated and disclaimed. The sole remedy for Whitmore's breach of such Limited Express Warranty shall be a refund of the purchase price of its goods, and Whitmore shall have no responsibility for incidental or consequential damages sustained as a result of the use of the goods, whether sustained to the goods themselves or to other property. Data listed are subject to usual manufacturing variations.