

## MEDALLION™ FM GEAR OILS

NSF Registered for H-1/Kosher Approved

Medallion™ Food Machinery Gear Oils are blended using a new generation 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 result is longer oil and component life.

Medallion™ Food Machinery Gear Oils also contain effective antiwear additives to protect metal surfaces and reduce downtime due to component failure.

Medallion™ Food Machinery Gear Oils are NSF Registered for H-1 authorized and can be used in food plants where incidental contact with edible products may occur.

Medallion™ FM Gear 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.

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

### BENEFITS:

- H-1 RATED - for use in food processing facilities where incidental contact may occur.
- EXCELLENT DEMULSIBILITY - separates readily from water.
- REDUCES WEAR - protects against scoring, scuffing and galling to increase gear and bearing life.
- EXTENDED OIL LIFE - free of impurities including traces of sulfur, nitrogen, and inferior aromatic oils.
- IMPROVED ADHESIVENESS - insures a coating on the gears at start-up.

### APPLICATIONS:

In addition to parallel-shaft gearboxes, Medallion™ Food Machinery Gear Oils are appropriate for moderately loaded worm gear drives, oiled bearings, and couplings. For ISO 220 viscosity grade use 80W-90. For ISO 320 or 460 choose 85W-140.

ASTM #		TYPICAL CHARACTERISTICS			
	<b>Viscosity Grade</b>	80W-90	85W-140	680	1,000
	<b>NSF Registration</b>	H-1	H-1	H-1	H-1
<b>D-445</b>	<b>Kinematic Viscosity</b>				
	cSt @ 40°C	206.4	337.6	661.0	951.0
	cSt @ 100°C	17.9	29.2	40.00	52.00
<b>D-2270</b>	<b>Viscosity Index</b>	95	119	101	102
<b>D-97</b>	<b>Pour Point, °F (°C)</b>	0 (-18)	5 (-15)	10 (-12)	15 (-9)
<b>Gardner Method</b>	<b>Density, lb/gal @ 60°F (15.5°C)</b>	7.23	7.24	7.29	7.31
	<b>Specific Gravity, g/cc @ 60°F (15.5°C)</b>	0.868	0.869	0.875	0.878
<b>D-92</b>	<b>Flash Point, °F (°C) Cleveland Open Cup</b>	401 (205)	401 (205)	401 (205)	401 (205)
<b>D-2783</b>	<b>Four Ball EP, Weld Point, kg</b>	200	200	--	--
<b>D-4172</b>	<b>Four Ball Wear, Scar Width, mm @ 40 kgf</b>	0.40	0.40	0.30	0.30
	<b>Color</b>	Water White to Faint Yellow	Water White to Faint Yellow	Water White to Faint Yellow	Water White to Faint Yellow

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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For warranty information, scan the QR code.  
 You can also email us at [sales@whitmores.com](mailto:sales@whitmores.com)  
 Or write to the Sales Department at the address below.

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