



TECHNICAL DATA SHEET

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 end 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			
	Viscosity Grade	80W-90	85W-140	680	1,000
	NSF Registration	H-1	H-1	H-1	H-1
D-445	Kinematic Viscosity				
	cSt @ 40°C	186.0	374.0	661.0	951.0
	cSt @ 100°C	17.00	31.34	40.00	52.00
D-2270	Viscosity Index	95	119	101	102
D-97	Pour Point, °F (°C)	0 (-18)	5 (-15)	10 (-12)	15 (-9)
Gardner Method	Density, lb/gal @ 60°F (15.5°C)	7.23	7.24	7.29	7.31
	Specific Gravity, g/cc @ 60°F (15.5°C)	0.868	0.869	0.875	0.878
D-92	Flash Point, °F (°C) Cleveland Open Cup	401 (205)	401 (205)	401 (205)	401 (205)
D-4172	Four Ball Wear, Scar Width, mm @ 40 kgf	0.40	0.40	0.30	0.30
	Color	Water White	Water White	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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THE WHITMORE MANUFACTURING COMPANY

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