

DECATHLON™ F SYNTHETIC ENCLOSED GEAR OIL

Decathlon™ F is a fixed formulation fluid in group IV PAO base oil (synthetic) for use in Flender's helical bevel and planetary gear units. It meets Flender specification of 6/12/2005 Rev. 9.

Decathlon™ F Synthetic oil is an extreme pressure lubricant formulated to meet the exacting demands of enclosed gear systems including differentials, transmissions, and industrial gear boxes. The properties of the synthetic (PAO) base oils reduce friction and power consumption when compared to petroleum based oils.

Decathlon™ F Gear Oil is designed to perform under adverse conditions such as heavily loaded gears, shock loading, and frequent reversing action. They meet the performance requirements of extreme pressure lubricants of the American Gear Manufacturer's Association (AGMA) specification 9005-D94 "Lubrication of Industrial Enclosed Gearing." They also meet U.S. Steel Specification 224 and DIN 51517-3 requirements.

Decathlon™ F Gear Oil is especially recommended for applications where the operating temperature of the oil exceeds 175°F (80°C).

BENEFITS:

- **REDUCED WEAR** - protects against scoring, scuffing, and galling to increase gear and bearing life.
- **VERSATILE** - may be used in a variety of industrial and mobile equipment including mixed fleets.
- **DEMULSIFIABLE** - readily separates from water.
- **ANTI-FOAM** - protects seals and keeps operating temperatures low by breaking up entrapped air bubbles as they form.

APPLICATIONS:

Decathlon™ F is ideal for use in wind turbine gearboxes, cranes, mining machines, crushers, and extruders. It can also be used on gearboxes that are affected by a nearby heat source, such as in the glass or steel industry.

Use Decathlon F in the gearboxes on Bucyrus equipment that have been manufactured by Flender.

ASTM #	ISO Grade	TYPICAL CHARACTERISTICS		
		150	220	320
D-445	Kinematic Viscosity cSt @ 40°C cSt @ 100°C	142.10	228.17	325.70
		20.30	28.1	36.78
D-2270	Viscosity Index	165	160	161
D-97	Pour Point, °F (°C)	-45 (-43)	-45 (-43)	-45 (-43)
Gardner Method	Density, lb/gal @ 60°F (15.5°C) Specific Gravity, g/cc @ 60°F (15.5°C)	7.09	7.12	7.17
		0.8513	0.8549	0.8605
D-92	Flash Point, °F (°C) Cleveland Open Cup	482 (250)	420 (216)	470 (243)
D-4172	Four Ball Wear Scar Width, mm @ 40 kgf	0.40	0.40	0.40
ISO 6614	Demulse Properties, 180°F (82°C)	15	15	15
ISO 2160	Copper Strip Corrosion 3 hrs @ 212°F (100°C)	1A	1A	1A
ISO 14635-1	FZG (A/8.3/90)	Pass 12	Pass 12	Pass 12
DIN 51354-2	FZG (A/16.6/90)	Pass 12	Pass 12	Pass 12
DIN 51819-3	FE-8 Bearing Rollers Weight Loss, mg Cage Weight Loss, mg	17	17	17
		22	22	22
FVA 54 (I-IV)	Micropitting Test (Grey Staining) Load Stage Fail Load Stage GSC Rating Endurance Stage GSC Rating	Fail 10	Fail 10	Fail 10
		High	High	High
		High	High	High
		High	High	High

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

PACKAGING

Nonreturnable Totes	Drums	Pails
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For warranty information, scan the QR code.
You can also email us at sales@whitmores.com
Or write to the Sales Department at the address below.

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