

DECATHLON™ HD SYNTHETIC ENCLOSED GEAR OILS

Decathlon™ Synthetic Enclosed Gear Oils are extreme pressure lubricants formulated to meet the exacting demands of most types of enclosed gear systems including differentials, transmissions and industrial gear boxes. The physical properties of the synthetic base stock reduces friction and power consumption when compared to petroleum based oils.

Decathlon™ Synthetic Enclosed Gear Oils are 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 requirements.

Decathlon™ Gear Oils are especially recommended for applications where temperatures exceed 175°F (80°C). Where high operating temperatures are caused by internal friction within the gearbox, the use of Decathlon™ Oils often results in temperature reductions.

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.
- **ANTIHOAM** - protects seals and keeps operating temperatures low by breaking up entrapped air bubbles as they form.

APPLICATIONS:

Use Decathlon™ HD on gearboxes that are subjected to severe or shock load.

It can also be used on gearboxes that are affected by a nearby heat source, such as in the glass or steel industry. Also, useful in cold conditions where conventional oils thicken excessively. In situations where oil change intervals are longer than normal the use of Decathlon™ HD Gear Oils minimizes carbon and sludge formation.

ASTM #	TYPICAL CHARACTERISTICS								
	HD 90	HD 140	HD 150	HD 220	HD 320	HD 460	HD 680	HD 1000	
Product Name									
ISO Grade	150	N/A	150	220	320	460	680	1000	
SAE Grade	75W-90	80W-140	90	90	90	140	140	250	
AGMA Grade	4 EP	N/A	4 EP	5 EP	6 EP	7 EP	8 EP	8A EP	
D-445 Kinematic Viscosity									
cSt @ 40°C	157	283	142	220.8	327.9	466.8	727.4	1068.8	
cSt @ 100°C	17.8	31.9	17.3	25.8	34.4	46.6	65.0	86.8	
D-2270 Viscosity Index	146	150	133	149	149	157	158	163	
D-97 Pour Point, °F (°C)	-40 (-40)	-30 (-34)	-60 (-51)	-35 (-37)	-33 (-36)	-29 (-34)	-22 (-30)	-22 (-30)	
Gardner Method Density, lb/gal @ 60°F (15.5°C)	7.22	7.44	7.28	7.11	7.13	7.15	7.15	7.18	
D-92 Flash Point, °F (°C) Cleveland Open Cup	425 (218)	450 (232)	440 (227)	475 (246)	475 (246)	475 (246)	475 (246)	482 (250)	
D-2782 Timken OK Load, lb	65	75	65	70	75	75	80	80	
D-2783 Four Ball EP									
Weld Point, kg	250	315	250	400	400	400	400	400	
Load wear index	--	--	--	57	57	57	57	57	
D-4172 Four Ball Wear									
Scar Width, mm @ 40 kg	0.35	0.35	0.30	0.30	0.30	0.30	0.30	0.30	
D-665 Rust Test									
Distilled Water	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
D-130 Copper Strip Corrosion									
212°F (100°C) @ 3 hr	1A	1A	1A	1A	1A	1A	1A	1A	

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

PACKAGING

Bulk IBC Totes	Drums	Pails
----------------	-------	-------

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.

930 Whitmore Drive • Rockwall, Texas 75087 • USA • (972) 771-1000 • 800-699-6318
 An ISO 9001 and ISO 14001 registered company • www.whitmores.com

