

product data sheet

VARGEAR PAO RANGE

PAO industrial gear oils

VARGEAR PAO are advanced synthetic heavy duty industrial gears oils offering outstanding lubrication performance under severe operating conditions. This includes improved energy efficiency, long service life and high resistance to micro-pitting for optimal gear protection. Products in this range are suitable for all enclosed industrial reduction gear systems operating under severe conditions (e.g. wind turbines), plain/ rolling element bearings and oil circulation systems

VARGEAR PAO gear oils are available in a range of viscosities and are suitable for most types of industrial gears.

VARGEAR PAO gear oils are based on polyalphaolefin's that are synthetic hydrocarbons (SHC), these compounds offer excellent thermo-stability and a naturally high viscosity index.

Features and Benefits

Excellent load carrying capacity and micro-pitting performance providing long component life.

Outstanding oxidation and thermal stability extending lubricant life

Superior lubricant performance improving gear efficiency

Outstanding rust and corrosion protection of all metal surfaces

Rapid water shedding and air release performance

Compatible with mineral oils therefore no special change-over procedure is necessary

Specifications

FLENDER INDUSTRIAL GEAR REVISION 9 2005 DIN 51517 PART 3

AGMA 9005-E02 (EP) US STEEL 224

DAVID BROWN S1.53.101 TYPE E CINCINNATI MACHINE P-74

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Typical Properties

ISO Grade			150	220	320	460
Parameter	Unit	Method				
Kinematic Viscosity						
KV40	mm²/Sec	ASTM-D445	150.00	220.00	320.00	460.00
KV100	mm²/Sec	ASTM-D445	22.2	30.40	40.60	54.10
Viscosity index	-	ASTM-D2270	176	180	181	184
Density @ 15.5°C	g/cm³	ASTM-D4052	0.858	0.858	0.860	0.862
Flashpoint	°C	ASTM-D92	233	233	236	236
Pour point	°C	ASTM-D97	-54	-45	-45	-45

Varol Metalworking		Varol Machine Lubricants	
Varcut	Neat cutting oils, high performance, extensive range of viscosities	Varlube S Viscosity 32 - 320	Slideway
Varform	Comprehensive range of neat forming oils, including water extendable versions and vanishing oils	Varmulti Viscosity 32 - 680	Multilube - Slideway, Gear, Hydraulic
Varclean	Aqueous based wash fluids, surface cleaners and solvent degreasers	Vargear Viscosity 68 - 460	Industrial Gear
Varcool & Vargrind	Comprehensive range of high performance water soluble fluids. Low, medium, high oil content and synthetics	Varpress Viscosity 5 - 150	Hydraulic oil range covering zinc containing, zinc free and high VI