



Energol MGX

Morgoil Bearing Oils

Description

A range of premium grade circulating oil containing high quality solvent-refined mineral oils and performance-enhancing additives.

The Energol MGX range provide high oil film strength, outstanding rust protection, anti-wear, anti-scuff, anti-oxidation and water separating properties.

Applications

Energol MGX oils are intended for the lubrication of Morgan No-Twist Rod Mills & the backup roll bearing system. Energol MGX 88 is recommended for high speed No Twist Rod Mills with a single lubricant circulating system. In No Twist Rod Mills having two lubricating systems, the higher viscosity grades are used in the low speed roughing stands & the higher grades in the higher speed finishing stands.

The higher viscosity grades of this product are also very suitable to be used as paper machine lubricants, due to the high thermal/oxidative stability, as well as the outstanding performance in rust protection, water separation & wear/scuffing protection. In such applications, it functions as a joint bearing/gear lubricant in most lubricating points, including the rolling bearings of the driers.

Energol MGX oils meet the lubrication requirements of the Morgan Construction Company, USA.

Main Benefits

- High viscosity indices.
- Excellent oxidation stability permits extended oil life.
- Exceptional hydrolytic stability in presence of moisture contamination
- Class leading filterability in wet conditions
- Excellent water separation properties.
- Good rust protection properties & low copper corrosion tendency

- High film strength & outstanding anti-wear properties to provide high protection against bearing wear and gear scuffing under severe loading conditions
- Low carbon forming tendency minimizes bearing deposits and helps to maintain oil cleanliness under severe operating conditions.
- Efficient filtration with all types of filters, including those using fuller's earth as filtering medium.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration

of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Health, Safety and Environment

Health, safety and environmental information is provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products.

BP p.l.c. or its subsidiaries will not accept liability if the product is used other than in the manner or with the precautions or for the purpose/s specified. Before the product is used other than as directed, advice should be obtained from the local BP office.

Typical Characteristics

	Test Methods	Units	Grade :			
			88	150	320	460
Density at 15 °C	ISO3675/ASTM D1298	kg/m ³	0.89	0.89	0.90	-
Flash Point (PMCC)	ASTM D93	°C	225	230	234	-
Flash Point (COC)	ISO2592/ASTM D92	°C			265	-
Kinematic Viscosity at 40 °C	ISO3104/ASTM D445	mm ² /s	92	145	325	460
Kinematic Viscosity at 100 °C	ISO3104/ASTM D445	mm ² /s	10.7	14.9	24.6	-
Viscosity Index	ISO2909/ASTM D2270	-	99	102	97	>90
Pour Point	ISO3016/ASTM D97	°C	-18	-18	-12	-9
Foam Tendency/Stability:						
Sequence I : 24 °C	ASTM D892	ml	0/0	0/0	0/0	<50/0
Sequence II : 93 °C		ml	0/0	0/0	0/0	<50/0
Sequence III : 24 after 93 °C		ml	0/0	0/0	0/0	<50/0
Demulsibility (time to < 3ml emulsion)	ASTM D1401	minutes	15	15	15	15
Copper Corrosion (100 °C, 3h)	ASTM D130	-	1a	1a	1a	1a
Rust Protection (A & B)	ASTM D665	-	pass	pass	pass	-
Oxidation Test (RPVOT)	ASTM D2272	minutes	360	-	328	>250
FZG test (failure load stage)	ASTM D5182	load stage	>12	>12	>12	>12
4-ball test (dry)						
Weld Load	ASTM D2783	kg	155	-	178	-
Wear Diameter (1h/20kg)	ASTM D4172	mm	-	-	0.3	-
4-ball test (3% water)						
Weld Load	ASTM D2783	Kg	-	-	157	-
Wear Diameter	ASTM D4172	Mm	-	-	0.32	-

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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