BP Enersyn™ HTX

High temperature synthetic gear lubricant

Description

Enersyn HTX is a range of premium quality polyalpha-olefin based synthetic gear oils. They provide superior high temperature performance to conventional mineral-based lubricants. They are compatible with mineral oils and the seals and paints commonly used with them.

This translates to problem free change-over without the additional costs incurred when changing to ester or glycol fluids.

Enersyn HTX are particularly suited for use in high temperature bearings, gear and circulation systems.

Applications

Enersyn HTX grades have been formulated for use in all types of enclosed gears, in light to medium duty applications. They are also suitable for use in circulatory systems operating at high temperatures.

Note: On exposure to light these products will tend to become darker in colour but this does not affect their performance in any way.

Main Benefits

- Inherent high temperature and oxidation stability lead to longer service life at high temperatures and speeds
- Low pour point and very high viscosity index allow the grades to be used throughout an extremely wide operating temperature range (-36^0C to 18^0C).
- Good anti-wear properties and load carrying characteristics means reduced wear is experienced
- Exhibit good water separation corrosion protection
- Effective air release properties and low foaming tendency
- Compatibility with mineral lubricants, as well as the seal and paints used in mineral oil systems, translates to problem free change-over
- No additional changeover costs from mineral to HTX. Especially advantageous when compared to the large costs incurred in changing to ester or glycol based products.
- Low friction coefficient leads to reduced energy consumption which in turn reduces operating temperatures.

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.

Typical Characteristics

			HTX 220	HTX 320	HTX 460
Enersyn HTX	**Test Method**	**Units**			
Density @ 1 5^{0}C	ASTM D1209	Kg/L	0.869	0.865	0.873
Flash Point (PMC)	ASTM D93	^{0}C	235	235	236
Pour Point	ASTM D97	^{0}C	-45	-40	-40
Kinematic Viscosity @ 40 ^{0}C @ 100 ^{0}C	 ASTM D445 ASTM D445	 cSt cSt	 220 27	 323 32	 474 47
Viscosity Index	ASTM D2270	-	154	151	161
Copper Corrosion 3h/120 ^{0}C 3h/150 ^{0}C	ASTM D130	 rating rating	 1A 2A	 1A 2A	 1A 2A
Rusting Test	ASTM D665A	Observation	No rust	No rust	No rust
Foam Tendency/Stability Sequence 1 Sequence II Sequence III	ASTM D892	 mL/mL mL/mL mL/mL	 0/0 10/0 0/0	 0/0 30/0 0/0	 0/0 30/0 0/0
Air Release at 75 ^{0}C	ASTM D3427	Min	13	15	22
Four Ball EP Tests Welding Load Wear (1500 rpm, 40 kg, 1H) scar diameter	ASTM D2783	 Kg Mm	 200 0.26	 200 0.26	 200 0.3+
Timken OK Load	IP 240	Lb	15	16	16
FZG Gear Test A/8.3/90 ^{0}C A/16.6/110 ^{0}C	IP 334	 Load stage Failure	 >12 >12	 >12 >12	 >12 >12

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

Health & Safety Recommendations

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 International 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.

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