



Energyn HTX

High Temperature Synthetic Gear Lubricant

Description; Description

Energyn HTX is a range of premium quality oils based on polyalpha-olefin fluids. This ensures excellent performance in high temperature bearings, gear and circulation systems.

Unlike ester or glycol based synthetic fluids, they demonstrate good compatibility with mineral lubricants.

Applications; Applications

Energyn HTX grades have been formulated for use in all types of enclosed gears in light to medium duty applications and in circulatory systems operating at high temperatures.

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; Main Benefits

- Excellent high temperature and oxidation stability lead to longer service life at high temperatures and speeds.
- Very low pour point and very high viscosity index allow the grades to be used throughout an extremely wide operational temperature range (-36 °C to 180 °C).
- Good anti-wear properties and load carrying characteristics means reduced wear is experienced.
- The grades exhibit good water separation and demulsability, give good corrosion protection and have a marked resistance to foaming.

- Their compatibility with mineral lubricants as well as the seal and paints used in mineral oil systems means problem free replacement. Furthermore, no additional costs are incurred when replacing mineral based lubricants with HTX compared to ester or glycol based products.
- Very good air release properties.
- Low friction coefficient leads to reduced energy consumption which in turn reduces operating temperatures.

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

Health, safety and environmental information is

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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.; 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.

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Typical Characteristics; Typical Characteristics

	Test Methods; Test Methods	Units; Units	Grade :: Grade :	220	320	460
Density at 15 °C	ISO3675/ASTM D1298	failurekg/m ³		>12869	>12871	>12873
Flash Point (COC)	ISO2592/ASTM D92	°C		>12	>12	>12
Kinematic Viscosity: @ 40 °C	ISO3104/ASTM D445	mm ² /s		270	270	274
@ 100 °C				220	320	460
Viscosity Index	ISO2909/ASTM D2270	°C		27	36	47
Pour Point	ISO3016/ASTM D97			154	159	161
Copper corrosion, 3h/120 °C	ISO2160/ASTM D130			-45	-36	-40
3h/150 °C				1A	1A	1A
Foam Tendency/Stability	ASTM D892	ml		2A	2A	2A
Sequence I :				0/0	0/0	0/0
Sequence II :				10/0	0/0	30/0
Sequence III :				0/0	0/0	0/0
Air release at: 75 °C	ASTM D3427/IP 313	min		13	18	22
Corrosion - rust protection	ISO7210/ASTM D665B			no rust	no rust	no rust
Four ball EP tests	ASTM D2783/IP 239					
Welding load		kg		180	170	165
Wear,scar diam. (1500rpm,40kg,1hr)		mm		0.37	0.38	0.38
Timken OK Load	IP 240	lb		15	15	16
FZG gear test :	DIN 51 354/IP 334	load stage				
A/8.3/90 °C		failure		>12	>12	>12
A/16.6/110 °C				>12	>12	>12

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

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