Lubricants for industry.

Gear HPS

Synthetic lubricant formulated with polyglycol-based high-performance additives developed for use in the most extreme operating conditions.

Use

- Gear HPS is especially recommended for all types of enclosed gears, worm gearboxes, bearings, and all equipment operating under the most severe conditions of high loads and high temperatures where the use of an EP (extreme pressure) lubricant with high thermal stability is required.
- Its synthetic PAG formulation allows it to withstand high temperature changes and extreme pressures, making this product indispensable for certain conditions such as the textile industry, which operates continuously at over 150°C.
- This product should not be mixed with mineral oils as this would significantly reduce its performance. It is therefore necessary to thoroughly clean the system when changing from a mineral oil to Gear HPS synthetic oil.

Benefits

- Minimal energy loss due to its very low friction coefficient and high heat transfer, making it specifically recommended for worm gearboxes.
- Reduced wear on the components it lubricates.
- High thermal and oxidation stability, reducing the formation of deposits.
- Reduced equipment downtime with lower maintenance costs.
- Its low freezing point and very high viscosity index allow for a wide range of operating temperatures and improve performance in extreme conditions.
- Compatible with most seals and gaskets.

Specifications

- DIN 51517 Part 3 CLP
- ISO 12925-1 CKC/ CKD/ CKS Type
- AGMA 9005-F16 AntiScuff
- AIST 224
- FIVES CINCINNATI P-Specs

Physical and chemical properties

Parameter	Units	Method	Gear HPS			
ISO Grade	-	-	**150**	**220**	**230**	**460**
Viscosity at 40 °C	cSt	ASTM D-445	150	220	320	460
Viscosity at 100° C	cSt	ASTM D-445	23.2	34	50	69.5
Viscosity index	-	ASTM D-2270	185	202	220	230
Density 15 °C	kg/l	ASTM D-4052	0.9992	0.9996	1.0015	1.0035
Flash point COC	°C	ASTM D-92	230	232	232	232
Pour point	°C	ASTM D-97	-33	-30	-30	-27
FZG test, failure stage	-	DIN 51354-2	>12	>12	>12	>12
4 ball test (D. footprint, max)	mm	ASTM D-2266	0.35	0.35	0.35	0.35
4 ball test (Load, min)	kg	ASTM D-2783	240	240	240	240

Health & safety and environment

A Material Safety Data Sheet providing information on product hazards, handling precautions, first aid measures, and relevant environmental data is available for this product as per applicable legislation.

The typical values of the characteristics appearing in the table are average values given for guidance purposes only and do not constitute a guarantee. These values may be modified without any prior warning.