

Synthetic PAO Industrial EP Gear Oil

Description

DAYAN CLP PS gear oil range of high quality synthetic lubricants are based on polyalphaolefin (PAO) fluids and sulphur/phosphorus Extreme Pressure (EP) additive technology providing outstanding thermal stability and high load carrying capacity.

Features and benefits

- Full EP performance gives maximum protection of gears against wear and shock loading, including protection against micropitting.
- Good thermal and oxidative stability provides reliable operation and extended operating life when compared to mineral oil based products.
- High corrosion protection for gears.
- Inherently high viscosity index makes the product suitable for operations operating over a wide temperature range.
- Rapid air release and good performance in the Flender Foam Test prevents foaming and bearing damage.
- Good water separation and demulsification characteristics means reduced down time through prolonged lubricant life and increased equipment reliability.
- PAO based lubricant provides good compatibility with seals, paints and mineral oil based lubricants.

Application

DAYAN CLP PS range has been formulated for use in all types of enclosed gears including heavy loaded /shock-loaded gears and bearings where EP properties are required.

They are suitable for use in gearboxes where micro-pitting resistance is required and for a wide range of applications in extreme environments, for example Mining & Quarrying, Marine applications and Paper production.

The use of a PAO basestock provides inherently high Viscosity Index (VI) and low pour points making these products suitable for use over a wide temperature range.

DAYAN CLP PS range is fully compatible with nitrile, silicone and fluropolymer seal materials.

Product and environmental safety

DAYAN CLP PS SERIES are Unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standard of Industrial and personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water. Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

The DAYAN trademark is registered and protected in Iran.

Technical Data

Test	Units	Method	15	32	46	68	100	150	220	320	460	680	1000
ISO Viscosity Grade	-	-	15	32	46	68	100	150	220	320	460	680	1000
Relative Density at 15°C	g/ml	ASTM D4052	0.83	0.83	0.84	0.85	0.85	0.85	0.86	0.86	0.86	0.85	0.86
Kinematic Viscosity at 40°C	mm/s	ASTM D445	15.5	32	46	68	100	150	220	320	460	680	1000
Kinematic Viscosity at 100°C	mm/s	ASTM D445	3.65	6	7.8	11	15.20	21.2	28.5	38.6	51	73	97
Viscosity Index	-	ASTM D2270	122	136	139	153	160	166	168	172	174	182	188
Flash Point	°C	ASTM D92	180	230	235	240	240	240	240	240	240	240	250
Pour Point	°C	ASTM D5985	-39	-45	-45	-42	-39	-42	-39	-33	-30	-36	-24
(4-ball) welding point	kgf	ASTM D2783	250	250	250	250	250	250	250	250	250	250	250

Note:

1- The Typical characteristics are given as a guide only and may vary according to latest production according to ISO.