

GEAR SP

Full synthetic PAO gear oil

GEAR SP is a fully synthetic, type DIN 51517 CLP, EP-type series of lubricant that are particularly suitable for stationary gear transmission lubrication. Based on carefully selected synthetic hydrocarbons, suitable for bath temperatures continuously as high as 120°C.

Application :

- For all sorts of enclosed stationary gear transmission, for spur and (spiral)bevel gears, as well as for worm and worm gear type transmissions (including those transmissions with a steel/bronze combination). Applicable in virtually all working conditions, also in case of high mechanical stress, in both constant and widely varying ambient temperature conditions as well as in case of high temperatures of the transmission itself.
- Particularly recommended in case extended oil drain intervals are required.
- Perfectly mixable with mineral oil.
- It is however recommended to flush the system before use and to replace filter elements before filling up with GEAR SP.

Specifications :

- DIN 51517 Part 3 CLP
- FZG-EP wear test stage 12 without damage.

Properties :

- Compared to mineral oil, significantly increase resistance against aging. The excellent fluidity at low temperature enhances energy conserving properties, eases start-up of the transmission and guarantees immediate lube supply to all places that need lubrication.
- Natural low friction properties significantly reduce torque losses in the transmission, resulting in an increased mechanical output, as well as in a lower oil temperature and/or higher maximum allowable load.
- Oil with natural high and above all stable viscosity index, resulting in a excellent viscosity/temperature behaviour during the complete lifetime of the lubricant. ARDECA GEAR SP offers protection against corrosion due to humidity penetration and shows hardly any or no foaming tendency.

TYPICAL CHARACTERISTICS :

Test	Method	Unit	Average result			
			150	220	320	460
ISO-grade			150	220	320	460
Density at 15°C	D 4052	kg / m ³	0.870	0.871	0.878	0.896
Viscosity at 40°C	D 445	cSt	150	209	309	452
Viscosity at 100°C	D 445	cSt	24.7	26.8	36.0	50.0
Viscosity index	D 2270		101	103	95	93
Pour point	D 6892	°C	<-45	<-42	<-42	<-42
Flash point COC	D 92	°C	200	230	236	239
TAN	D 974	g KOH/kg	1.4	1.4	1.4	1.4

We reserve the right to alter the general characteristics of our products in order to let our customers benefit of the latest technical evolutions.