

DST Gear S

Synthetic gear oil for demanding conditions

Typical characteristics						
Name	Methods	Unit	S68	S150	S220	S320
ISO viscosity grade	–	–	68	150	220	320
Density at 15° C	ASTM D4052	kg/m ³	851	853	856	856
Kinematic viscosity at 40° C	ASTM D445	mm ² /s	69	155	217	324
Kinematic viscosity at 100° C	ASTM D445	mm ² /s	10.95	19.9	25.9	40.1
Viscosity index	ASTM D2270	–	151	148	152	177
Pour point	ASTM D97	°C	–60	–54	–51	–48
Flash point – open cup method	ASTM D92	°C	242	250	258	262
Foam sequence – tendency / stability	ASTM D892	ml/ml	10/0 30/0 0/0	0/0 0/0 20/0	0/0 0/0 10/0	10/0 30/0 0/0
Water separation at 82° C	ASTM D1401	min	N/A	15	15	25
Water separation at 54° C	ASTM D1401	min	15	N/A	N/A	N/A

DST Gear S is our synthetic industrial gear oil range, developed to provide best possible performance together with Double Separation Technology (DST). DST Gear S provides top performance, extends oil drain intervals and minimizes environmental impact.

The products are based on synthetic base oils, enhanced with carefully selected additives to obtain the following properties:

- Fully adapted to the DST process
- Excellent lubrication
- High viscosity index with excellent high- and low-temperature properties
- Very good resistance towards high pressure and shock loads

- High resistance towards micro-pitting
- Excellent corrosion protection and oxidation stability
- Long service life

Application

This synthetic oil is very suitable for the lubrication of heavily loaded mechanical gearboxes and bearings with a high thermal load. In comparison with mineral oils, synthetic oils substantially extend oil drain intervals.

When combined with the DST treatment, the oil can be used repeatedly with minimal

environmental impact and heavily reduced CO₂ emissions.

This oil is compatible with all seal materials and paints normally specified for use with mineral oils. No special changeover procedure is necessary.

Performance Level

DIN 51517-3 CLP
AIST 224
AGMA 9005-F16
David Brown S1.53.106
ISO 12925-1 Type CKD

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