



Product Data Sheet

TRIBOL[®] 800

Synthetic gear oils

DESCRIPTION

TRIBOL[®] 800 gear oils were developed for application in highly loaded gears and bearings even when subjected to high operating conditions.

They differ from mineral oil-based gear oils in the following characteristics:

- they feature an excellent oxidation stability (even at high temperatures)
- outstanding viscosity-temperature stability and extremely high viscosity-index without using VI improvers
- they are manufactured from high-quality polyglycol base oils
- TRIBOL[®] 800 synthetic gear oils are available in the viscosity grades 100 to 1000

APPLICATION

- The excellent properties of TRIBOL[®] 800 synthetic gear oils are especially evident in the lubrication of mechanically and/or thermally highly loaded friction surfaces.
- They are especially suited for service in highly loaded enclosed gear drives (spur, helical, bevel and worm gears), the lubrication of rolling and sliding bearings in paper machines, PVC calanders, kneaders, extruders and mills.
- Temperature Range:
Sustained oil reservoir temperatures up to + 140°C/285°F, with short-time exposure to peak temperatures up to 200°C/390°F.

ADVANTAGES

- Considerable decrease in maintenance costs due to a prolonged service life of lubricant and machine parts (owing to the high oxidation resistance an extremely extended service life of mineral oils is guaranteed)
- The good viscosity-temperature behavior ensures the formation of a load-resistant lubricating film on the friction surfaces over a wide temperature range thus offering an optimum wear protection.
- Critical mixed-friction areas are easily coped with due to the efficiency of EP additives. These operating conditions prevail under extremely high loads (e.g. shock loads), "stop-and-go" operations as well as at slow rolling and sliding speeds under high loads.
- Excellent corrosion protection and good foaming behavior.
- Compatibility with non-ferrous metals is guaranteed by appropriate additives.
- TRIBOL[®] 800 is classified according to API GL5 with regards to seizure.

NOTES FOR USE

- TRIBOL[®] 800 synthetic gear oils are not compatible with mineral oils. Therefore a thorough cleaning of gear-boxes, bearings and oil reservoirs are recommended.
- Condensation water may be absorbed without the danger of corrosion or a change in viscosity.
- TRIBOL[®] 800 synthetic gear oils are compatible with seals, e.g. NBR, FPM (other materials on request).
- They are compatible with nearly all conventional one-component and two-component lacquers.
- Quality standard: TRIBOL[®] 800 synthetic gear oils are CLP-PG oils (acc. to DIN 51502) and exceed the minimum requirements according to DIN 51517, T. 3 for CLP gear oils.

TRIBOL[®] 800

Technical data

TRIBOL [®] 800	Unit	Value								Test method
		800/100	800/150	800/220	800/320	800/460	800/680	800/1000	800/2200	
Article no.	-	2614	2615	2616	2617	2618	2619	2620	2648	-
ISO viscosity grade	-	100	150	220	320	460	680	1000	2200	DIN 51519
Density at + 15°C	kg/m ³	1050	1056	1070	1074	1075	1075	1074	1073	DIN 51757
Viscosity at + 40°C + 100°C	mm ² /s	100 20	150 26	220 34	320 50	460 72	680 112	1000 152	2200 345	DIN 51550
Viscosity index	-	205	210	215	230	240	260	275	320	DIN ISO 2909
Flash point	°C	280	280	290	290	290	290	300	225	DIN ISO 2592
Pour point	°C	- 42	- 36	- 33	- 30	- 30	- 27	- 24	- 12	DIN ISO 3016
Corrosion test, test A (dist. water)	-	0								DIN 51585
Copper corrosion test (corrosion degree 100 A3)	-	1								DIN EN ISO 2160
Four ball weld load	N	1600/1800	1600/1800	1600/1800	1800/2000	1800/2000	1800/2000	1800/2000	2600/2800	DIN 51350-02
Four ball wear test Wear scar diameter	mm	0.27								DIN 51350-03-B
FZG test, (A/8.3/90), damage load stage	-	> 12								DIN 51354
FZG jump test (S-A10/16.6R/90) damage load stage	-	9								-
micropitting test (stage test) Micropitting load carrying capacity: high	-	10								FVA No. 54
Foaming stability Sequence I Sequence II Sequence III	ml	0 50/0 0								ISO 51566

1 mm²/s $\hat{=}$ 1cSt

These technical data are based on average test results. Minor deviations may occur from case to case.
For further product information please contact the Technical Service of Castrol Industrie GmbH.

Above data are based on extensive tests and practical experience. Considering the wide range of application requirements, they cannot, however, guarantee success in every single case. We therefore recommend practical trials. We reserve the right to change the product composition with a view to further improvement.

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