



Optileb™ GT Range

Synthetic food machinery gear oils

Description

Castrol Optileb™ GT 1800 Range (previously called Tribol™ FoodProof 1800) synthetic food machinery gear oils have been developed for service in worm gear drives and for all other types of enclosed gear drives, where heavy load conditions prevail. They were formulated to meet the stringent requirements for NSF-H1 lubricants and are designed for use in the food and beverage industry where incidental contact with food is possible.

Application

Optileb GT 1800 Range gear oils are available in the typical ISO viscosity grades for worm gear drives, ISO VG 220 and 460. Formulated to meet the requirements of the NSF-H1 approval, they are suited for applications where incidental contact with food is possible.

Optileb GT 1800 Range gear oils are polyglycol based and offer exceptional anti-wear and load carrying capacity.

Optileb GT 1800 Range synthetic food machinery gear oils are used in worm, spur, helical, herringbone, straight or bevel gears.

Optileb GT 1800 Range may be applied by oil can, oil cup reservoir, splash, spray, mist or by automatic dispensing equipment, central and circulation systems.

Optileb GT 1800 Range oils are not miscible with lubricating oils based on mineral oils or synthetic hydrocarbons.

Optileb GT 1800 Range gear oils are compatible with elastomers like NBR and FPM.

Quality Standard: Optileb GT 1800 Range are CLP-PG gear oils, (acc. to DIN 51502) and exceed the minimum requirements according to DIN 51517, part 3 for CLP.

They are lubricants L-CKE, (acc. to ISO 6743-6) and exceed the minimum requirements of ISO 12925-1.

Advantages

Optileb GT 1800 Range synthetic food machinery gear oils have been developed for the lubrication of worm gear units, with steel worms and bronze worm wheels. With this application, considerable advantages may be gained when it comes to the efficiency and service life of the gear units.

Due to the polyglycol base, friction values are being reduced and lower wear rates may be achieved due to special additives.

Typical Characteristics

Name	Method	Units	GT 1800/220	GT 1800/460
ISO Viscosity Grade	DIN 51519	-	220	460
Density @ 15°C / 59°F	ASTM D4052 / ISO 12185	kg/m ³	1050	1055
Kinematic Viscosity @ 40°C / 104°F	ASTM D 445 / ISO 3104	mm ² /s	220	460
Kinematic Viscosity @ 100°C / 212°F	ASTM D 445 / ISO 3104	mm ² /s	39.9	77.6
Viscosity Index	ASTM D2270 / ISO 2909	-	235	245
Flash Point - open cup method	ASTM D92 / ISO 2592	°C/°F	>260	>260
Pour Point	ASTM D97 / ISO 3016	°C/°F	-33	-30
Rust Test (distilled water)	ISO 7210 / ASTM D665A	-	Pass	Pass
Copper Corrosion test (degree, 100 A3) -1	DIN EN ISO 2160	-	1	1
Four Ball Wear test - Wear Scar Diameter (300N / 1 hr)	DIN 51350-3B	mm	0.45	0.4
FZG Test (A/8.3/90) Damage load stage (A/16.6/90) Damage load stage	DIN 51354	-	>12 12	>12 12
Foam Sequence I - tendency / stability	ASTM D892 / ISO 6247	ml / ml	0/0	0/0
Foam Sequence II - tendency / stability	ASTM D892 / ISO 6247	ml / ml	70/0	70/0

Subject to usual manufacturing tolerances.

This product was previously called Tribol FoodProof 1800 Range. The name was changed in 2015

Optileb™ GT Range

06 Oct 2022

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

<http://msdspds.castrol.com>