

Optileb GT Range

Synthetic NSF H1 gear lubricant

Description

Optileb™ GT are gear oils with NSF H1 authorisation, especially developed to meet the special requirements of the food and beverage industries. They are based on synthetic oils and contain carefully selected additives to prevent wear, oxidation and corrosion.

Optileb GT gear oils exceed the requirements of DIN 51517 part 3 CLP.

Application

- For the special requirements of the food and beverage industries where there may be direct exposure of the lubricated part to the edible product or its packaging.
- For the lubrication of spur, angular and worm gear units.
- For the lubrication of gear motors in stirring machines, turners, packaging machines etc.
- For the lubrication of chain variators, rolling and sliding bearings, pumps and closed circulating systems.

Advantages

- Odorless, tasteless and colourless
- High load-carrying capacity
- Excellent wear, oxidation and corrosion protection
- Good water separation ability
- No foam formation
- Neutral to non-ferrous metals
- Excellent viscosity/temperature behaviour
- Miscible with mineral oil based fluids
- Disposal of used product as with mineral oils

Typical Characteristics

Name	Method	Units	GT 100	GT 150	GT 220	GT 320	GT 460	GT 680
Colour	ASTM D1500	-	Light - Yellow					
Base Oil	-	-	Polyalphaolefin					
ISO Viscosity Grade	-	-	100	150	220	320	460	680
Density @ 15°C / 59°F	ISO 12185 / ASTM D4052	kg/m ³	850	850	860	860	860	860
Kinematic Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm ² /s	101	149	213	320.1	465	682
Kinematic Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm ² /s	14.5	19.4	26.3	34.2	45	56
Viscosity Index	ISO 2909 / ASTM D2270	-	148	149	157	150	151	143
Pour Point	ISO 3016 / ASTM D97	°C/°F	-42/-44	-42/-44	-39/-38	-36/-33	-36/-33	-27/-17
Flash Point - Open Cup method	ISO 2592 / ASTM D92	°C/°F	220/ 428	236/ 457	210/ 410	234/ 453	249/ 480	240/ 464
Copper corrosion (24 hrs@100°C/212°F)	ISO 2160 / ASTM D130	Rating	1a	1a	1a	1a	1a	1a
Rust test - Distilled Water (24 hrs)	ISO 7120 / ASTM D665A	-	Pass	Pass	Pass	Pass	Pass	Pass
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	>12	>12	>12	>12	>12	>12

Subject to usual manufacturing tolerances.

Additional Information

- Please observe the viscosity guidelines specified by the manufacturer.
- Good compatibility with conventional sealing materials.
- As OPTILEB GT is miscible with mineral oils, no large-scale cleaning and flushing is necessary during switchover of products.

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Castrol India Limited, Industrial Lubricants & Services Rayala Towers , II Tower , V Floor 781-785 , Anna Salai , Chennai – 600 002

Tel: +91 44 42198899 / 823 Fax: +91 44 28416305 Toll Free: 1800 - 425 - 4588 (BSNL) Help Line: 044-42198885 Email: CustomerService.India@castrol.com

www.castrol.com/industrial