



Optileb GT Range

Synthetic NSF H1 gear lubricant

Description

Optileb™ GT are gear oils with NSF H1 authorisation 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. All viscosity grades are certified to Halal and Kosher specifications.

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
- For rolling and sliding bearings
- For pumps and closed circulating systems.

Advantages

- Odorless, tasteless and colorless
- 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

Typical Characteristics

Name	Method	Units	GT 100	GT 150	GT 220	GT 320	GT 460
Color	ASTM D 1500	-	light-yellow				
Base Oil	-	-	polyalphaolefin				
ISO Viscosity Grade	-	-	100	150	220	320	460
Density @ 15°C	ASTM D 4052	g/ml	0.85	0.85	0.86	0.86	0.86
Kinematic Viscosity @ 40°C	ASTM D 445	mm ² /s	101	149	213	320	465
Kinematic Viscosity @ 100°C	ASTM D 445	mm ² /s	14.5	19.4	26.3	34.2	45
Viscosity Index	ASTM D 2270	-	148	149	157	150	151
Pour Point	ASTM D 97	°C / °F	-42 / -44	-42 / -44	-39 / -38	-36 / -33	-36 / -33
Flash Point - open cup method	ASTM D 92	°C / °F	220 / 428	236 / 457	210 / 410	234 / 453	249 / 480
Copper corrosion (24 hrs@100°C)	ASTM D 130	Rating	1a	1a	1a	1a	1a
Rust test - distilled water (24 hrs)	ASTM D 665A	-	Pass	Pass	Pass	Pass	Pass
FZG Gear Scuffing test - A/ 8.3/90	ISO 14635-1	Failure Load Stage	>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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