



Product Data

CASTROL OPTILEB® GT™

Fully synthetic gear lubricants, physiologically safe, USDA H1 authorized

DESCRIPTION

OPTILEB® GT are gear oils with USDA H1 authorization, especially developed to meet the special requirements in 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 are in conformity and even exceed the requirements of DIN 51517 part 3 CLP.

APPLICATIONS

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

ADVANTAGES

- OPTITEC® - OPTIMOL technology
- odorless, tasteless and colorless
- high load carrying capacity
- excellent wear, oxidation and corrosion protection
- good water separation ability
- no foam formation
- neutral to nonferrous metals
- excellent viscosity/temperature behavior
- miscible with mineral oil
- disposal like mineral oil

NOTES FOR USE

- Please observe the viscosity 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 conversion.

Optileb GT
18.08.2005,
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Die technischen Daten sind Durchschnittswerte, die jedoch innerhalb der festgelegten Spezifikation liegen.
Diese Angaben entsprechen umfangreichen Prüfungen und Praxiserfahrungen. Bei der Vielfalt der Anwendungen kann daraus keine Verbindlichkeit für die Bewährung in jedem Einzelfall hergeleitet werden. Praxiserprobungen empfohlen. Änderungen der Zusammensetzung bleiben vorbehalten, gegebenenfalls in Absprache mit dem Kunden.
Weitere Produkt-Informationen sind bei der Anwendungstechnik der Deutsche BP Aktiengesellschaft zu erfragen.

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Technical data

	Unit	Value						Test method
		100	150	220	320	460	680	
CASTROL OPTILEB® GT	-	100	150	220	320	460	680	-
Color	-	light-yellow						visual
Base	-	polyalphaolefin						-
ISO viscosity group	-	100	150	220	320	460	680	DIN 51519
Density at + 15°C/+ 159°F	kg/m ³	850	850	860	860	860	860	DIN 51757
Kin. viscosity at + 40°C/+ 104°F at + 100°C/+ 212°F	mm ² /s	101 14.5	149.0 19.4	213 26.3	320.1 34.2	465 45.0	682 56.0	DIN 51562
Viscosity index	-	148	149	157	150	151	143	DIN ISO 2909
Pour point	°C °F	- 42 - 43.6	- 42 - 43.6	- 36 - 32.8	- 33 - 27.4	- 27 - 16.6	- 21 - 5.8	DIN ISO 3016
Flash point	°C °F	220 428	236 456.8	210 410	234 453.2	249 480.2	240 464	DIN ISO 2592
Copper corrosion protection	-	1a	1a	1a	1a	1a	1a	ASTM D-130
Steel corrosion protection	-	0 - A	0 - A	0 - A	0 - A	0 - A	0 - A	DIN 51355
FZG test (8.3/90) Scoring load stage	-	> 12	> 12	> 12	> 12	> 12	> 12	DIN 51354

1 mm²/s $\hat{=}$ 1cSt

Optiflex A
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