



## Product Data

# OPTILEB® AGT

Fully Synthetic Gear Lubricant

### Description

**OPTILEB® AGT** – Fully synthetic gear lubricants, physiologically safe meeting AQIS & MAF standards and the former USDA H1 authorisation.

**OPTILEB® AGT** are gear oils with USDA H1 authorisation, 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.

### Application

- 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.

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### Recommendations

- Please observe the viscosity specified by the manufacturer.
- Good compatibility with conventional sealing materials.
- As **OPTILEB® AGT** is miscible with mineral oils, no large scale cleaning and flushing is necessary during conversion.

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### Characteristics

High film strength paraffinic mineral oil base combined with anti-wear, extreme pressure and self-lubricating solid additives. Specific penetrating, wetting and tackiness additives ensure rapid penetration to all internal working parts, superior adhesion and also inhibits dust and contaminant attraction.

PLD 1499/01

**Bulk Item Code – Optileb AGT150 – 116465**

**Bulk Item Code – Optileb AGT220 – 116468**

**Bulk Item Code – Optileb AGT320 – 116472**

**Bulk Item Code – Optileb AGT460 – 116476**

**Bulk Item Code – Optileb GT680 – 113108**

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## Technical Data

TESTS	UNIT	AGT 150	AGT 220	AGT 320	AGT 460	GT 680
Density @ 15°C	g/ml	0.86	0.86	0.86	0.86	0.86
Kin. Viscosity @ 40°C @ 100°C	cSt	150	220	320	460	680
	cSt	19	26	35	45	56
Viscosity Index	-	142	144	147	151	143
Pour Point	°C	- 36	- 36	- 36	- 21	- 21
Flash Point PMC	°C	200	200	200	249	240
Demulsification D1 401	min	40/40/Nil (20)	40/40/Nil (20)	40/40/Nil (25)	-	-
Foam Sequence I	ml	50/Nil	50/Nil	50/Nil	-	-
Acidity	mg KOH/g	0.7	0.7	0.7	-	-
IP 135 B-Salt water	-	No rust	No rust	No rust	No rust	No rust
<u>Copper corrosion IP 154</u> 3 hours @ 120°C	-	Class 1	Class 1	Class 1	Class 1	Class 1
Oxidation IP 280						
Sludge	%	0.5	0.6	0.6	-	-
T.O.P.	%	0.8	0.9	0.9	-	-
4- Ball Test						
Weld Point	kg	120	120	120	-	-
1 hr wear @ 20kg. 1800rpm	mm	0.3	0.3	0.3	-	-
Load wear index	kg	-	50	-	-	-
FZG (A/8.3/90) Fail Stage	-	> 12	> 12	> 12	> 12	> 12
Approval	-	USDA H1	USDA H1	USDA H1	USDA H1	USDA H1

These technical data are based on average test results. Minor deviations may occur from case to case.

## Health, Safety & Environment

For more detailed information please consult the Castrol Material Safety Data Sheet available on request.

- Spillage:            **SMALL - 20 LITRES OR LESS**  
Soak up on Castrol Diatomaceous Earth or similar inert oil absorbent. Arrange for disposal through an approved facility.
- LARGE - GREATER THAN 20 LITRES**  
Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert absorbent material such as vermiculite, sand or dirt onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. Do not dilute material but contain. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
- Disposal:            Dispose of waste according to federal, E.P.A., state and local regulations. Assure conformity with all applicable regulations.

All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol Industrial Australia Inc. products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.

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