



Product Data

Alpha WT Range

Industrial Gear Oils

Description

Castrol Alpha™ WT is a fully formulated industrial gear oil specially designed to mix with water when contamination occurs. It contains a fortified additive package which provides excellent wear and corrosion protection in harsh environments.

Application

Castrol Alpha WT should be used wherever Joy TO-HD lubricants are specified or where water contamination of gear boxes is a concern.

Advantages

- Formulated with an emulsifier package
- Latest technology additive package
- Mixes with water in operation
- Exceeds EP performance of Joy TO-HD specification
- Provides lubrication in wet environments
- Premium wear protection of components

Typical Characteristics

Name	Method	Units	Alpha WT 220	Alpha WT 320	Alpha WT 460
ISO Viscosity Grade	-	-	220	320	460
Viscosity Index	ISO 2909 / ASTM 2270	-	101	101	101
Pour Point	ISO 3016 / ASTM D97	°C/°F	-24/-11.2	-21/-5.8	-21/-5.8
Extreme Pressure test - Falex Pin & V-Block	ASTM D 3233 (method B)	lbf	4500+	4500+	4500+
Rust test - distilled water (24 hrs)	ISO 7120 / ASTM D665A	-	Pass	Pass	Pass
Rust test - synthetic seawater (24 hrs)	ISO 7120 / ASTM D665B	-	Pass	Pass	Pass
Oxidation Stability - EP oils (95°C@312 hrs)	ASTM D2893 / ISO 4263-4	Kv increase @ 100°C (%)	3.2	3.2	3.2
Copper corrosion (3 hrs@100°C/212°F)	ISO 2160/ ASTM D130	-	1b	1b	1b
Foam Sequence I / II / III - tendency / stability	ISO 6247 / ASTM D892	ml/ml	10/0, 0/0, 0/0	10/0, 0/0, 0/0	10/0, 0/0, 0/0
Four Ball Weld Load test - Weld Point	ASTM D2783	kgf	400	400	400
FZG Gear Scuffing test - A/8.3/90	ISO 14635-1	Failure Load Stage	12+	12+	12+

Subject to usual manufacturing tolerances.

Additional Information

The Alpha WT range is classified as non hazardous according to the criteria of Safe Work Australia. However, in line with safe handling practices, it is recommended that the handling instructions outlined in the Castrol Material Safety Data Sheet be followed.

The Alpha WT range is classified as a C2 combustible liquid for storage and handling purposes. Store in a cool, dry, well-ventilated area out of direct sunlight. Avoid sparks, flames and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidising materials). Reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.

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