



Perfecto X Superclean Range

Turbine Oil

Description

Castrol Perfecto™ X Superclean range of turbine oils are based upon premium quality mineral oils enhanced with rust and oxidation inhibitors to give maximum protection at high temperatures.

This product is specifically filtered to meet ISO 4406 fluid cleanliness level of 17/15/12 or lower at the point of fill.

Application

Castrol Perfecto™ X Superclean range is recommended for industrial gas turbines where the lubricant is likely to be exposed to very high localised temperatures. It is also suitable for the lubrication of steam turbines and Combined Cycle generating systems where the steam and gas turbines share a common supply. Castrol Perfecto™ X Superclean range possesses excellent air release performance, good resistance to foaming and excellent water separation properties.

Castrol Perfecto™ X Superclean range meets the requirements of the following specifications:

British Standard BS 489

DIN 51515 -1 (L-TD)

DIN 51515 - 2 (L-TG)

General Electric

- GEK 32568j (ISO VG 32)
- GEK 107395A (ISO VG 32)

Advantages

- High resistance to oxidation and thermal degradation provides long lubricant life due to low deposit/lacquer formation.
- Excellent air release properties mean they meet the requirements of all turbine manufacturers.
- Excellent water separation and corrosion inhibition mean reduced down time through prolonged lubricant life and increased equipment reliability.
- Suitable for the lubrication of both gas and steam turbines makes them suitable for Combined Cycle generating stations.

Typical Characteristics

Name	Method	Units	Perfecto X 32 Superclean	Perfecto X 46 Superclean
ISO Viscosity Grade	-	-	32	46
Density @ 15°C / 59°F	ASTM D4052	kg/m ³	856	864
Kinematic Viscosity @ 40°C / 104°F	ASTM D445	mm ² /s	32	45
Kinematic Viscosity @ 100°C / 212°F	ASTM D445	mm ² /s	5.6	6.9
Viscosity Index	ASTM D2270	-	113	108
Foam Sequence I - tendency / stability	ASTM D892	ml/ml	0/0	0/0
Air Release @ 50°C / 122°F	ASTM D3427	minutes	1	3
Demulsification - Steam method	IP 19	seconds	60	90
Water Separation @ 54°C / 129°F (40/37/3)	ASTM D1401	minutes	5	15
Pour Point	ASTM D5950	°C / °F	-18 / 0	-18 / 0
Flash Point - open cup method	ASTM D92	°C / °F	219 / 426	215 / 419
Acid Number	ASTM D664	mgKOH/ g	0.1	0.1
Rust test - synthetic seawater (24 hrs)	ASTM D665B	Rating	Pass	Pass
Copper corrosion (3 hrs@100°C/ 212°F)	ASTM D130	Rating	1b	1b
Oxidation Stability - Rotating Pressure Vessel test	ASTM D2272	minutes	1180	1113

Subject to usual manufacturing tolerances.

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