Perfecto X

Premium turbine lubricant

Description

Perfecto X turbine oil range of lubricants is based upon premium quality mineral oils enhanced with rust and oxidation inhibitors to give maximum protection at high temperatures.

Application

Perfecto X grades are recommended for industrial gas turbines where the lubricant is likely to be exposed to very high localised temperatures. They are also suitable for the lubrication of steam turbines and combined cycle generating systems where the steam and gas turbines share a common supply.

Perfecto X grades possess superior air release performance, good resistance to foaming and excellent water separation properties. Perfecto X is fully compatible with nitrile, silicone and fluoropolymer seal materials.

Perfecto X grades meet the requirements of, or are approved against, the following specifications:

- British Standard BS 489
- DIN 51515 -1 and -2
- GEK 32568g and GEK 107395A (ISO 32)
- Alstom HTDG 90 117 (formerly ABB)
- Siemens TLV 9013 04 and 05

Features and Benefits

- Superior resistance to oxidation and thermal degradation provides a very long life lubricant because of low deposit/ lacquer formation.
- Superior 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.

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Typical Characteristics

Test	Method	Units	32	46	68
Density @ 15°C	ASTM D4052	kg/m³	849	860	865
Kinematic Viscosity @ 40°C	ASTM D445	mm²/s	32	46	68
Kinematic Viscosity @ 100°C	ASTM D445	mm²/s	5,7	7,1	9,5
Viscosity Index	ASTM D2270	-	112	112	112
Foam Sequence I	ASTM D892	ml/ml	10/0	10/0	10/0
Air Release @ 50°C	ASTM D3427	min	2	2	3
Demulsification	IP 19	sec	10	90	90
Pour Point	ASTM D97	°C	-15	-18	-15
Flash Point - open cup	ASTM D92	°C	222	234	234
Acid Number	ASTM D664	mgKOH/g	0,05	0,05	0,05
Rust test - synthetic seawater (24 hrs)	ASTM D665B	-	Pass	Pass	Pass
RPOV test	ASTM D2272	min	>1,000	>1,000	>1,000
Copper corrosion (3 hrs@100°C)	ASTM D130	Rating	1a	1a	1a
Oxidation Stability – TOST	ASTM D943	hrs	>10,000	>10,000	>10,000

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings.

Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

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