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Product Data Sheet (PDS)



INGEN TURBINE OIL ISO 32/46/68/100

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INGEN TURBINE OIL

ISO 32/46/68/100



Ingen Turbine Oils are hi quality, inhibited turbine oil formulated from highly refined base stocks and special rust, oxidation and foam exhibitors.

APPLICATIONS:

- Centrifugal, rotary and reciprocating compressors, turbo-blowers and centrifugal pumps, requiring a rust and oxidation inhibited oil (**not** recommended for use in breathing air compressors).
- Steam and hydraulic turbines operating under all service conditions.
- Industrial gas turbines operating under moderate service conditions where the oil is not exposed to excessively high temperatures.
- Bath and circulating systems supplying rolling element bearings of all types, lightly loaded gear sets, vacuum pumps, machine tools (including computer controlled units), conveyors, electric motors, and low to moderate pressure hydraulic pumps where anti-wear properties are not required.

PERFORMANCE STANDARD:

INGEN TURBINE OIL ISO 32, 46, 68 meets and exceeds the following standard including (but not limited to):

- DIN 51515 Parts I & II
- GEK 27070, 28143B, 32568K and 46506E
- Siemens Power Generation TLV 9013 04 & TLV 9013 05
- Alstom Power Turbo Systems HTGD 90 117

BENEFITS

- **Prolonged oil service life:** The superior oxidation stability provided by the multi-component inhibitor system resists oil brake down during exposure to high temperature conditions for longer service life.
- **Trouble-free operation:** The excellent water separability of the highly refined base stocks and special inhibitor system ensure rapid settling of harmful water accumulated from steam condensate. The non-silicone foam inhibitor allows rapid release of entrained air while minimizing foam formation to enable reliable operation of sensitive hydraulic control devices.

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- **Saves on maintenance and downtime:** The highly refined base stocks and multi-component inhibitor system resist the formation of harmful sludge and varnish deposits. The special rust inhibitor protects components against corrosion.
- **Saves on inventory:** The premium quality rust and oxidation inhibited formulation has multipurpose capability in a wide range of industrial applications for which this type of product is recommended, simplifying oil inventories and reducing the possibility of using the wrong lubricant.

TECHNICAL DATA

ISO Grade	32	46	68	100
Air Release @ 50°C, mins	2.9	3.8	6.2	*
Flash Point, COC, °C	212	224	234	254
Oxidation Stability,				
D943, hrs to 2.0 Acid Number,	3000	3000	2700	2500
IP 280 (TOP), m %	0.24	0.26	0.27	0.28
Pour Point, °C	-9	-9	-9	-9
Viscosity,				
mm ² /s @ 40°C	30.6	44.0	65.0	65.5
mm ² /s @ 100°C	5.3	6.6	8.4	10.8
Viscosity Index	102	100	98	96

Health and Safety:

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request. This product should not be used for purposes other than its

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intended use. If disposing of used product, take care to protect the environment.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.