

TECHNICAL PRODUCT SHEET

# TURBINE S-HT

## ISO 32, 46



### DESCRIPTION

TURBINE S-HT is an extreme-performance Rust and Oxidation (R&O) oil specifically designed for the lubrication of steam and gas turbines, as well as turbochargers. It is formulated with very high-quality hydrotreated base stocks featuring exceptional oxidative stability, combined with a carefully balanced and selectively chosen additive system. This advanced formulation provides superior protection against sludge formation, rust, and oxidation, along with excellent filterability and rapid air release characteristics. As a result, TURBINE S-HT is ideally suited for extended service intervals, ensuring optimal operational reliability, cleanliness, and long-term equipment performance.

### APPLICATIONS

TURBINE S-HT series is suitable for the lubrication of all steam and gas turbines, as well as associated gearboxes, auxiliary turbine equipment, and control systems. The formulation includes anti-wear additives, making it suitable for lightly to moderately geared applications. In addition, TURBINE S-HT can be used in rotary and reciprocating air compressors, centrifugal pumps, vacuum pumps, and gear-type pumps. It is recommended for a wide range of industrial and offshore applications where very high rust and oxidation (R&O) protection, system cleanliness, and operational reliability are required, always in accordance with equipment manufacturers' guidelines.

### SPECIFICATIONS

DIN	51524 Part 1	Siemens	65/0027-7
DIN	51515 Part1/2	GEK	10941A
ISO	11158 HH/HL	GEK	27070
ISO	8068 L-TSA/-TGA/-TSE/-TGE	GEK	18143B
AGMA	9005-F16 R&O	GEK	28143B-I
ASTM	D4304 Type 1/2/3	GEK	32568J
IS	1012	GEK	46506E
JIS	K2213-2	AG TLV	9013-04
Fives Cincinnati	P-38 (ISO 32)	AG TLV	9013-05
BS	489		

### PROPERTIES

TURBINE S-HT series provides extreme protection against rust and oxidation, helping to preserve system integrity and extend oil and equipment service life. It offers very good demulsification and rapid de-aeration to ensure effective water separation and stable lubrication. Excellent thermal and oxidative stability further support clean system operation and reliable performance under demanding operating conditions.

### BENEFITS

TURBINE S-HT series delivers long service life without the formation of acids or sludge, maintaining superior system cleanliness. It enables rapid separation of water entrained in the system, ensuring maximum lubrication efficiency and reliable component protection. By minimizing deposit build-up, the formulation supports stable operation, reduced maintenance, and extended equipment life.



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### PHYSICAL-CHEMICAL CHARACTERISTICS

TURBINE S-HT	METHOD	ISO 32	ISO 46
Density at 15°C, g/cm <sup>3</sup>	ASTM D4052	0.856	0.869
Viscosity, Kinematic (cSt) 40°C	ASTM D445	32	46
Viscosity, Kinematic (cSt) 100°C	ASTM D445	5.2	6.8
Viscosity index	ASTM D2270	109	108
Flash point, COC, °C	ASTM D92	225	244
Pour point, °C	ASTM D97	-12	-21
Colour	ASTM D1500	0.5	0.5
Acid Number, mgKOH/g	ASTM D 974	0.075	0.074
Copper corrosion	ASTM D 130	1a	1a
Foam Tendency / Stability, ml			
Sequence I	ASTM D892	0 / 0	0 / 0
Sequence II		0 / 0	0 / 0
Sequence III		0 / 0	0 / 0
Oxidation stability (RPVOT), min	ASTM D2272	2,778	2,507
Oxidation stability (TOST), hrs	ASTM D 943	11,602	10,405
Demulsibility, min.	ASTM D1401	10	15
Air release, min	ASTM D3427	1.5	3.6
Rust Test	ASTM D 665	Pass	Pass
ISO Cleanliness	ISO 4406	16/14/10	17/14/11
FZG test A/8.3/90 (geared turbines), fail	ASTM D5182	9	>12
Zinc, ppm	ASTM D4927	0	0

The above mentioned characteristics represent mean values.

### STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



### HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



### USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

