



PRODUCT DATA SHEET

PREMIUM TURBINE OILS (ISO 32 - 320)

PRODUCT DESCRIPTION

Premium Turbine Oils are multifunctional R&O (rust and oxidation inhibited) oils for use in equipment placing high demands on the lubricant. These turbine oils are also suitable for use in some compressor applications.

Premium Turbine Oils are blended from premium quality hydro-cracked Group II paraffinic base oils possessing a high viscosity index and low pour point, and a multifunctional ashless additive packages. The combination of these components provides outstanding oxidative stability and corrosion inhibition for a long trouble free service life.

Premium Turbine Oils resist emulsification, and formation of unwanted stable foam. Sludge formation is prevented and protection against ferrous and non ferrous corrosion is maintained.

BENEFITS

The performance benefits of **Premium Turbine Oils** include:

- High oxidation stability
- Good thermal stability
- Excellent hydrolytic stability
- Protection against sludge formation
- Exceptional protection against corrosion of steel and non-ferrous metals components
- Excellent demulsifying behavior and
- Low foaming tendencies

SPECIFICATIONS

Premium Turbine Oils meet or exceed the requirements of many international tests and specifications for R & O turbine and hydraulic systems including:

- Cincinnati-Machine P-38 (HL 32), P-55 (HL 46), P-54 (HL 68), P-57 (HL 150)
- ASTM D-4304
- DIN 51524 Part 1 (HL)
- DIN 51506 (VBL, VCL, VDL)
- DIN 51517 Part 2 (CL)
- DIN 51515, Part 1 (L-TD), Part 2 (L-TG)
- ISO/DP 6521 (DAA, DAB, DAH, DAG)
- AFNOR NF-E 48-603 (HL)
- Siemens TLV 9013 04/01
- British Standard BS 489
- General Electric GEK 32568 A/C
- MIL-L-17672 D
- US Steel 120
- CEBG Standard 207001
- Brown Boveri / Alstom HTGD 90117 V0001S
- Westinghouse Electric Corporation Turbine Oil Specification
- ISO 8068
- Solar ES 9-224

Hi-Tec suggests that the equipment manufacturers' recommendations for viscosity grade, performance requirements and general operating conditions should be checked prior to use.





Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362
 5 Tarlington Place Smithfield NSW 2164
 Correspondence: P.O Box 322 Castle Hill NSW 1765
Ph: 1300 796 009 | **Fax:** (02) 9604 1611 | **Email:** hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

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TYPICAL PROPERTIES

Property	ASTM Method	Typical Results							
		32	46	68	100	150	220	320	
ISO Viscosity		2599	2598	2594	2591	2587	TBA*	2593	
Item Code (HI6-)									
Appearance	- Visual	Clear, Bright							
Density @ 15°C	Kg / L D-1298	0.855	0.864	0.872	0.874	0.880	0.887	0.902	
Viscosity @ 40°C	cSt D-445	32	46	68	100	150	220	320	
Viscosity @ 100°C	cSt D-445	5.4	6.75	8.9	11.8	15	20	24.3	
Flash Point	°C D-92	219	229	273	267	270	280	273	
Pour Point	°C D-97	-39	-36	-21	-18	-25	-21	-21	
Copper Corrosion	D-130	1A	1A	1A	1A	1A	1A	1A	
Rust Test	D-665A/B	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Demulsibility - (minutes to separation)	min D1401	5	5	10	10	10	10	10	
Oxidative Stability - Sludge (1000hr)	mg D-4310	10.8	10.8	10.8	10.8	10.8	10.8	10.8	
KOH/g TAN (1000hr)	mg D-4310	0.07	0.07	0.07	0.07	0.07	0.07	0.07	
Hours to TAN 2	mg KOH/g D943	14000	14000	14000	14000	14000	14000	14000	

Available in: Bulk, 1000 Litres, 200 Litres and 20 Litres

*ISO 220 is currently not manufactured.

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at www.hi-tecoils.com.au. Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner.

Our product warranty and product quality statement can be viewed at www.hi-tecoils.com.au"

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