



Product Data

PERFECTO T RANGE

23/03/2010

Turbine Lubricants

DESCRIPTION

Castrol Perfecto T turbine oils are based on highly refined mineral oils, with selective additives to improve their inherent high oxidation stability and to protect against corrosion of ferrous and non-ferrous metals.

APPLICATION

Castrol Perfecto T oils are primarily intended for the lubrication of steam turbines, base oils used being selected to give the requisite water separation characteristics, resistance to foaming and the good air entrainment properties essential for this demanding application. Castrol Perfecto T turbine oils are also suitable for water turbines, the power turbines of generating sets based on aero-derived gas turbines and for many Industrial gas turbines. Castrol Perfecto T grades have been well proven in all of these applications, together with many other Industrial applications where a high quality lubricating oil is required.

Castrol Perfecto T grades comply with or exceed the following standards & specifications: British Standard BS 489 : 1983, National Power, PowerGen Deutch Industrie Normen DIN 51515, Nuclear Electric 207001 They are further approved by or meet the specifications of all major steam turbine manufacturers.

FEATURES

- ◆ Excellent thermal stability
- ◆ Stable in aggressive environments, heat, air, moisture and metal catalyst, all contribute to oil degradation.

BENEFITS

- ◆ Long oil life
- ◆ Long oil life



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TYPICAL PHYSICAL CHARACTERISTICS

Properties	Test Methods	T32	T46	T68	T100
ISO Viscosity Grade	-	32	46	68	100
Kinematic Viscosity, cSt @ 40°C @ 100°C	IP71/ASTM D445	32	46	68	100
		5.3	6.7	8.6	11.1
Viscosity Index	IP226/ASTM D2270	96	96	96	96
Relative Density @ 20°C	IP15/ASTM D4052	0.870	0.875	0.880	0.880
Pour Point, °C	IP15/ASTM D97	-12	-12	-12	-12
Closed Flash Point, °C	IP34/ASTM D93	205	210	215	215
Neutralisation N° mgKOH/g	IP139/ASTM D974	0.10	0.10	0.10	0.10
Air Release Value @ 50°C, mins	IP313	3	4	4	5
Water Separation, mins	ASTM D1401	10	10	10	10
Demulsification N°, secs	IP19	60	60	60	60
Foaming Properties, ml Seq 1, 24°C Seq 2, 93.5°C Seq 3, 24°C	IP146/ASTM D892	200/0	200/0	200/0	150/0
		50/0	50/0	50/0	50/0
		200/0	200/0	200/0	150/0
Rust Prevention Distilled Water Sea Water Sea Water Wash	IP135/ASTM D665 85489:Appendix A	Pass	Pass	Pass	Pass
		Pass	Pass	Pass	Pass
		Pass	Pass	Pass	Pass
Copper Corrosion, 3 hrs @ 100°C,	IP154/ASTM D130	1	1	1	1
Oxidation Ch'tics Sludge, %	IP280	0.10	0.13	0.14	0.10
Total Oxidation Products, %	-	0.29	0.35	0.37	0.38
Oxidation Ch'tics Products, % (no catalyst)	IP306	0.06	0.05	0.07	0.08
TOST hrs to 2.0mgKOH/g	IP157/ASTM D943	>2000	>2000	>2000	>2000
Rotating Bomb Oxidation Test, mins	IP229/ASTM D2272	350	350	350	350

Health and Safety information sheets are available for all Castrol products from the address below:
Castrol (U.K.) Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, England, Telephone:
Orders/Enquiries (08459)645111, Technical Enquiries (01793)452111, Fax (01793)486083

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