LANXESS

Lubricant Additives Business

Reolube® Turbofluid 32B GT

Fire Resistant Hydraulic Fluid

Description

Reolube® Turbofluid 32B GT is an ISO 32 synthetic phosphate ester fluid designed primarily for the hydraulic control and lubrication systems of stationary industrial gas turbines. It can also be used in steam turbine and combined cycle applications.
The values given in the tables are typical and do not constitute specification limits.

Technical data*

PHYSICAL PROPERTY	UNIT	TYPICAL VALUE	TEST
Colour	Hazen	30	ASTM D1500
Kinematic Viscosity at 100°C	cSt	4.8	ISO 3104
Kinematic Viscosity at 40°C	cSt	32.8	ISO 3104
Kinematic Viscosity at 0°C	cSt	844.8	ISO 3104
Specific Gravity at 20°C		1.17	ISO 3675
Pour Point	°C	-24	ISO 3016
Acid Number	mgKOH/g	0.01	ISO 6619
Chlorine Content	ppm	<2	Microcoulometric
Water Content	%w/w	0.07	ISO 760
Volume Resistivity at 20°C	Mohm.m	18	IEC 60247
Foaming Tendency at 24°C	ml	10	ISO 6247
Foaming stability at 24°C	ml	0	ISO 6247
Air Release at 50°C	min	7.2	ISO 9120
Water Separation	min	13	ISO 6614

**The analytical data are guide values.*

FIRE RESISTANCE PROPERTY	UNIT	TYPICAL VALUE	TEST
Flash Point (open cup)	°C	262.2	ASTM D92
Fire Point (open cup)	°C	>350	ASTM D92
Auto-ignition Temperature Method A	°C	600	DIN 51794

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LUBRICATION PERFORMANCE PROPERTY	UNIT	TYPICAL VALUE	TEST
Vickers Vane Pump Test Ring Weight Loss	mg	2.3	ISO 20763
Vickers Vane Pump Test Vane weight Loss	mg	0.6	ISO 20763
Vickers Vane Pump Test Ring Total Weight Loss	mg	2.8	ISO 20763
Four Ball Wear Test Wear Scar Diameter	mm	0.54	ASTM D4172
FZG Gear Test Failure Load Stage		8	DIN 51354 part 1
FZG Gear Test Specific Weight Loss	mg/kWh	0.24	DIN 51354 part 1

**The analytical data are guide values.*

STABILITY PROPERTY	UNIT	TYPICAL VALUE	TEST
Oxidative Stability Method A Acid Value Change	mgKOH/g	0.09	DIN EN 14832
Oxidative Stability Method A Weight Changes iron, copper	mg	0.2, -1.2	DIN EN 14832
Oxidative Stability Method B Viscosity Change at 40°C	%	3.2	FTM 791 5308.7
Oxidative Stability Method B Acid Value Change	mgKOH/g	0.12	FTM 791 5308.7
Oxidative Stability Method C Time to 275 kPa Pressure Drop	min	192	ASTM D2272
Hydrolytic Stability Method A Acid Value Change in Fluid	mgKOH/g	0.92	DIN EN 14833
Hydrolytic Stability Method A Acid Value Change in Water	mgKOH/g	1.4	DIN EN 14833
Hydrolytic Stability Method B Acid Value CHange in Fluid	mgKOH/g	0.08	ASTM D2619
Hydrolytic Stability Method B Acid Value Change in Water	mgKOH/g	5.49	ASTM D2619
Hydrolytic Stability Method B Copper Weight Change	mg	0.59	ASTM D2619

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Packaging

Reolube Turbofluid 32B GT is available in 230kg drums

Storage conditions

Store in a cool, dry location

Handling

In accordance with safe industrial practice, gloves, safety glasses and an apron should be worn when handling Reolube® Turbofluids, and spillages should be dealt with immediately. If allowed to overheat, breathing the fumes should be avoided For more extensive information on the safety handling and use of this product, see the Safety Data Sheet.

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