

PRODUCT INFORMATION

A PRODUCT OF AMERICAN CHEMICAL TECHNOLOGIES, INC.



SynLube 751

Rotary Screw Compressor Lubricants

DESCRIPTION:

SynLube 751 are polyglycol based lubricants. This type of compressor lubricant has been the industry standard for quality compressor lubricant for over 25 years.

- Long life expectancy—Perfect for annual change interval.
- Will not form sludge or varnish—Keeps compressor operating clean and efficiently.
- Removes existing varnish—Perfect lubricant for removing varnish from compressors running on hydrocarbon fluids.
- Cools more efficiently—Excellent at removing heat created by the compression process.
- Environmentally considerate—Compressor condensate is biodegradable.
- High flash point—One of the highest fluid flash points in the industry.
- Very low carryover—With less than 1 ppm carryover, less top off fluid is needed.

PROPERTIES:

	Test Method	SL751-32	SL751-46
Color		Green	Blue
Clarity		Clear	Clear
ISO Viscosity Grade	ISO 3448	32	46
Viscosity @ 40°C	ASTM D445	35.75 cSt	46.0 cSt
Viscosity @ 100°C	ASTM D445	6.849 cSt	cSt
Viscosity Index	ASTM D2270	154	
Pour Point	ASTM D97	<-47°C (<-53°F)	°C (°F)
Density @ 15°C	ASTM D4052	0.986 g/cm ³	g/cm ³
Density @ 59°F	ASTM D4052	8.23 lbs/gallon	lbs/gallon
Specific Heat @ 75°C	ASTM E1269	2104 J/kg•K	J/kg•K
Thermal Conductivity @ 25°C	ASTM D5930	0.148 W/m•K	W/m•K
Flash Point	ASTM D92	243°C (469°F)	°C (°F)
Fire Point	ASTM D92	285°C (545°F)	°C (°F)
Cleanliness	ISO4406:1999	17/16/13	17/16/13
Total Acid Number	ASTM D664	0.26 mgKOH/g	mgKOH/g
ICP-AES	ASTM D5185		
Barium		358 ppm	ppm
Calcium		2 ppm	ppm
Phosphorus		3 ppm	ppm
Silicon		24 ppm	ppm
Zinc		0 ppm	ppm

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	Test Method	SL751-32	SL751-46
Noack Volatility, Procedure C	ASTM D5800	5.52 %	%
Rust Test, 24 hour	ASTM D665B	Pass	Pass
Rust Test, 48 hour	ASTM D665B	Pass	Pass
Copper Strip Corrosion	ASTM D130	1b	1b
Oxidation Stability by OPV	ASTM D2272	606 min	min
Hydrolytic Stability	ASTM D2619		
Weight Change of Cu Panel		-0.008 mg/cm ²	mg/cm ²
Appearance		Shiny 1B	Shiny 1B
Change in Viscosity		+2.83%	%
Change in acid number		+0.09 mg KOH/g	mg KOH/g
Total acidity of water layer		0.90 mg KOH	mg KOH
Insolubles		0.016%	%
Air Release @ 50°C	ASTM D3427	6.5 min	min
Foam Tendency/Stability	ASTM D892		
Sequence I		20ml/0ml	ml/ml
Sequence II		20ml/0ml	ml/ml
Sequence III		20ml/0ml	ml/ml
Four-Ball Wear	ASTM D2266	0.67 mm	mm
Cold Crank Simulator	ASTM D5293		
-5°C		411 cP	cP
-10°C		810 cP	cP
-15°C		1308 cP	cP
-20°C		2334 cP	cP
-25°C		4171 cP	cP
-30°C		8731 cP	cP
-35°C		19175 cP	cP
-40°C		47039 cP	cP
Viscoelasticity		None	None

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