

Ultra SL 4000™ Coolant

High Performance Synthetic Coolant for Rotary Screw Air Compressor

Ultra SL 4000™ coolant, as a high-performance synthetic coolant for rotary screw compressors, is formulated by using refined hydrogenated Group III base oil and oil soluble polyalkylene glycol (OSP) based Group V base oil with well-balanced high performance additive package.

Ultra SL 4000™ can meet the compressor's demand for a coolant with a long service life, low wear and exceptional cleanliness due to its outstanding oxidation stability.



Benefits

Combining OSP, selected anti-oxidant and coolant additives, Ultra SL 4000™ is obviously superior to similar coolants in the market:

- **Oxidation resistance**

OSP, as synthetic base oil, enhances oxidation stability for a long service life;

- **High cleanliness**

OSP, as a polar base oil (vs non-polar mineral oil, PAO), can dissolve polar polymers for exceptional cleanliness and effective oil sludge prevention;

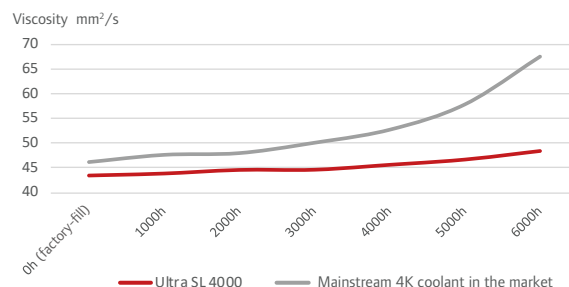
- **Wear resistance**

Coolant additives and OSP synergize to significantly reduce wear;

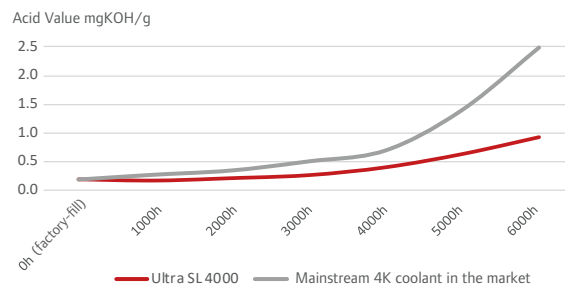
- **Heat conductivity**

OSP with higher specific heat capacity & heat transfer coefficient ensures a better cooling effect for the system.

Whole-life Field Test Data Comparison (Viscosity)



Whole-life Field Test Data Comparison (Acid Value)



Note: the test data are results obtained after thorough oil drain and cleaning.

Customer Value

- Longer drain interval lowers operation and waste oil handling cost
- Less coking and varnish reduces airend maintenance cost
- Less bearing wear extends service life of components
- Better heat exchanging effect improves reliability of the unit



Technical Parameters

Specifically formulated for Ingersoll Rand rotary screw compressor with best-in-class performance

Parameter	Unit	Test Method	Typical Value
Viscosity			
40°C	cSt	ASTM D445	42.9
100°C	cSt	ASTM D445	7.32
Viscosity index (VI)	-	ASTM D2270	130
Flash point	°C	ASTM D92	246°C
Pour point	°C	ASTM D97	-36°C
Total acid value	mgKOH/g	ASTM D664	0.13
Moisture %	ppm	ASTM D6304	<300
Foam stability			
24°C	ml/ml	ASTM D892	0/0
93.5°C	ml/ml	ASTM D892	0/0
After 24°C	ml/ml	ASTM D892	0/0
Specific heat capacity			
24°C	KJ/Kg.K	ASTM D7896	2.02
45°C	KJ/Kg.K	ASTM D7896	2.08
75°C	KJ/Kg.K	ASTM D7896	2.18
115°C	KJ/Kg.K	ASTM D7896	2.33
Heat transfer coefficient			
24°C	W/m.k	ASTM D7896	0.148
45°C	W/m.k	ASTM D7896	0.145
75°C	W/m.k	ASTM D7896	0.14
115°C	W/m.k	ASTM D7896	0.134



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Contact Ingersoll Rand

F11, L'Avenue, No. 99, Xianxia Road, Shanghai
Tel.: 021-2221 6000
Website: www.IngersollRand.com

National Toll-free Service Hotline

800 820 2128
400 820 2128