



113a

DESCRIPTION:

Synthetic High Performance Long life Compressor Coolant, Suitable for rotary screw, rotary vane, piston, air and refrigeration compressors, hydraulics, gearboxes, airlines, chains, bearings and slides. Up to ten times lubricant life extension, water resistant. Available SAE 15, 20 & 30 or ISO 46, 68 & 100.

CHARACTERISTICS:

Extended Life

Mainlube 113a's Polyalphaolefin SHC (Synthetic hydrocarbon) base oil is blended with specialised antioxidation additives that greatly extend oil change intervals by controlling oxidation. Uncontrolled oxidation dramatically shortens the life of ordinary lubricants. Mainlube 113a's specialised oxidation inhibitors prevent deposits when applied to long service high temperature applications that would damage ordinary compressor oils in hours.

Compatible with Seals and Gaskets

113a is completely compatible with ordinary oil seals and gaskets no special precautions need to be taken.

Heat and Cold Resistance

Mainlube 113a can be used over a wide temperature range, -50°C to + 150°C. Ordinary mineral oils are unable to hold up over this temperature range.

This makes 113a ideal for the following applications:

Ultra Low Refrigeration; 113a has no wax content and low solubility. It has excellent flow characteristics with chemical stability in freon and ammonia refrigerants.

Hydraulic Systems Stationary or Mobile; where sustained operation in extremely cold environments is necessary, eg. cold chambers, freezer storage areas and ski resort type applications, Mainlube 113a ISO 46 is pumpable down to -50°C.

High Pressure Compressors; where temperatures are high and compressors highly stressed, conventional oils tend to form carbon deposits. Mainlube 113a resists this tendency.

Wear Prevention

Mild E.P. anti-suff additives minimise wear and ensure a lubrication film is maintained in hard working equipment. 113a's additives will give anti-wear qualities superior to normal premium mineral gear and hydraulic oils.

Good Filterability

Mainlube 113a ashless detergents prevent deposits from moisture due to hydrolytic instability. This prevents deposits protecting against filter plugging, in hydraulics this will rapidly damage pumps due to oil starvation.

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Mainlube 113A Applications:

Mainlube 113A has provided outstanding results in the following applications.

Hydraulic Systems
Airlines
Bearings

Chains
Gear Boxes
Piston Compressors

Rotary Vane Compressors
Rotary Screw Compressors
Air & Refrigeration Compressors

Note: Maximum recommended oil change using 113A in Rotary Screw Compressors is 10,000 Hours. This is subject to the applications existing conditions, Mainlube recommends oil analysis every 2,000 Hours during the first application to new sites to ensure maximum life from machine and lubricant.

AVAILABLE IN:

- SAE 15 (ISO 46)** For screw, piston or vane compressors, light gears, chains, vacuum pumps, drip, hydraulic, air line and spray applications.
- SAE 20 (ISO 68)** For screw, piston or vane compressors, light gears, chains, vacuum pumps, drip, hydraulic, air line and spray applications.
- SAE 30 (ISO 100)** For screw, piston or vane compressors, light gears, chains, vacuum pumps, drip, hydraulic, air line and spray applications.

SPECIFICATIONS:

	TEST ASTM	ISO VG 46	TEST RESULTS ISO VG 68	ISO VG 100
Specific Gravity				
@ 15.6 °C	D-1298	0.840	842	0.845
Viscosity, cSt: @ 40 °C	D-445	46.92	68.2	100.98
@ 100 °C	D-445	7.96	10.80	14.48
@ -40 °C	D-445	29500	31000	81000
Viscosity Index	D-2270	173	173	173
Flash Point COC °C	D-92	276	279	281
Pour Point, °C	D-97	-60	-58	-48
Foam Characteristics				
Sequence 1	D-892	Nil	Nil	Nil
Sequence 2:	D-892	Nil	Nil	Nil
Sequence 3:	D-892	Nil	Nil	Nil
Total Acid Number (mg KOH/g)	D-664	0.7	0.7	0.7
Rust Prevention				
48 Hrs Salt Water. Emcor (DIN.51802)	D-665(B)	Pass 0	Pass 0	Pass 0
Cooper Strip Corrosion 3 Hours at 100°C	D-130	1a	1a	1a
Evaporation Loss, % mass				
22 Hrs @ 149°C	D-972	0.5	0.5	0.5
6.5 Hrs @ 205°C	D-972	2.9	2.8	2.7
Hours to TAN 2.0	D-943	<3000		<2500
Oxidation				
Pneurop, % Carbon Residue (DIN 51352 Part 2)	D-189	2.3	2.2	2.1

DISTRIBUTED BY:



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