



76 Unax® RX-HT

76 Lubricants Unax RX-HT is a high-quality, thermally stable, inhibited mineral oil developed for use in both open and closed liquid-phase heat transfer systems.

Unax RX-HT is available in one viscosity grade: ISO 32. It is formulated with hydroprocessed paraffinic base oils that have good thermal stability and low sludge-forming tendency, resulting in long service life. It is fortified with select additives that provide enhanced oxidation resistance and detergency to help keep the system clean for maximum heat transfer efficiency.

Applications

Unax RX-HT is recommended for use in closed liquid-phase heat transfer systems equipped with expansion tanks and pressure relief valves, where the maximum bulk oil temperature does not exceed 550°F (288°C). Preventive measures should be taken to minimize oil oxidation by eliminating air from the system prior to bringing the oil up to operating temperature. The use of an inert gas, such as nitrogen, under positive pressure in the expansion tank is recommended at all times during operation. Under no circumstances should the hot oil come into contact with air.

Unax RX-HT also is recommended for use in open liquid-phase heat transfer systems equipped with cold-oil sealed expansion tanks, where the maximum bulk oil temperature does not exceed 374°F (190°C).

Unax RX-HT is **not** recommended for use in vapor-phase heat transfer systems. Consult the equipment manufacturer for recommendations on oil change intervals and for recommended practices for replacement of other brands with Unax RX-HT.

Some common heat transfer applications for Unax RX-HT include:

- Direct and indirect-fired hot oil heaters in asphalt plants
- Hot corrugation and gluing
- Dehydration
- Molding and extrusion equipment
- Plastic and wax coating equipment
- Organic synthesis hot oil systems

**Inhibited Heat
Transfer Oil For
Open And Closed
Systems**

**Customer Service
Number:
1-888-766-7676**

**Technical Hot Line:
1-800-435-7761**

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Features/Benefits

- Excellent resistance to thermal breakdown at high temperatures
- Excellent performance in both open and closed heat transfer systems
- Long service life
- Excellent deposit control
- Low odor
- Noncorrosive

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Typical Properties

ISO Grade	32
Density, g/cm ³ @ 15.6°C (60°F)	0.863
Density, lbs/gal @ 15.6°C (60°F)	7.19
Color, ASTM D1500	L 1.0
Flash Point (COC), °C (°F)	218 (424)
Pour Point, °C (°F)	-40 (-40)
Viscosity,	
cSt @ 40°C	31.0
cSt @ 100°C	5.4
SUS @ 100°F	160
SUS @ 210°F	44.4
Viscosity Index	108
Carbon Residue, ASTM D524, wt %	0.17
Specific Heat, Btu/lb-°F,	
@ -18°C (0°F)	0.418
@ 93°C (200°F)	0.515
@ 204°C (400°F)	0.612
@ 288°C (550°F)	0.685
Vapor Pressure @ 260°C (500°F), mm Hg	8.0

Health and Safety Information

For recommendations on safe handling and use of this product, please refer to the Material Safety Data Sheet via <http://w3.conocophillips.com/NetMSDS>.

Due to continual product research and development, the information contained herein is subject to change without notification.

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