

MAR-TEMP H 341

(Formerly VOLUTA H 401)

HIGH PERFORMANCE HOT QUENCHING OIL – (ISO 6743-14) UHF

DESCRIPTION

MAR-TEMP H 341 is a high performance accelerated hot quenching oil suitable for use at temperatures of up to 180°C. It is based upon solvent-refined mineral oils and contains a specially formulated additive package which provides accelerated quenching characteristics and excellent oxidation resistance and thermal stability.

MAR-TEMP H 341 has a high flash point and will provide long life under arduous operating conditions.

APPLICATIONS

MAR-TEMP M 341 is designed for hot oil quenching applications where minimum distortion is required and a very high cooling rate is necessary to achieve the optimum hardness and physical properties. It finds particular application in sealed quench furnaces at temperatures up to 180°C, under a protective atmosphere, for the control of distortion on critical high precision components such as automotive transmission parts in through hardened, carburised and carbo-nitrided steels. It can also be used in open tanks at temperatures in excess of 120°C for the quenching of gears and shafts.

The additives incorporated into MAR-TEMP H 341 reduce the duration of the vapour phase and provide a high maximum rate of cooling. This enables the development of maximum hardness and physical properties, and is particularly important on critical carburised or carbonitrided gear components where maximum hardness and case depth is a tooth root requirement

TYPICAL PHYSICAL PROPERTIES

<i>Appearance</i>	<i>Clear brown</i>	<i>visual</i>
<i>Specific Gravity @ 20°C</i>	<i>0.889</i>	<i>ASTM D 4052</i>
<i>Kinematic Viscosity @ 40°C in mm²/s</i>	<i>160</i>	<i>ASTM D445</i>
<i>Kinematic Viscosity @ 100°C in mm²/s</i>	<i>17</i>	<i>ASTM D445</i>
<i>Flash Point COC in°C</i>	<i>262</i>	<i>ASTM D92</i>
<i>Maximum Cooling rate in °C/s @ 40°C</i>	<i>71</i>	<i>ISO 9950</i>

BENEFITS

- Economic – Lifetime improved provided by excellent oxidation resistance and thermal stability
- Economic - Consistent performance under the most arduous of operating conditions
- Economic - Uniform quenching characteristics maintained over a range of operating temperatures
- Economic – No sludge formation
- Economic – Drag out limited by viscosity adapted for hot application
- Operator friendly - Base oil highly refined
- Safety – High flash point

RECOMMENDATION FOR USE

Use as supplied - neat quenching oil application

RELATED PRODUCTS

Product is compatible with the full range of Houghton's portfolio, especially with the Houghto-Clean and Ensis corrosion protection range. For more information, please contact your local Houghton representative.

STORAGE

Please refer to section 7 of Safety Data Sheets for handling and storage information, including product shelf life. Product should be stored under cover in clean, dry conditions and protected from frost. Recommended storage temperature is usually between 5°C and 40°C unless otherwise specified. Use stock in delivery rotation.

HEALTH AND SAFETY

Safety data sheets are available in accordance with Regulation (EC) No 1907/2006 Annex II where a substance or preparation meets the criteria in accordance with Directives 67/548/EEC or 1999/45/EC.

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COOLING CURVE @ 40°C

