

MAR-TEMP 355

High Performance Accelerated Hot Quenching Oil

DESCRIPTION

Mar-Temp 355 is a high performance accelerated hot quenching oil suitable for use at temperatures of up to 375°F (190°C). It is based upon solvent-refined mineral oils and contains a specialty formulated additive package which provides accelerated quenching characteristics and excellent oxidation resistance and thermal stability.

Mar-Temp 355 has a high flash point and will provide long life under arduous operation conditions.

APPLICATION

Mar-Temp 355 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.

Mar-Temp 355 can be used at temperatures of up to 375°F (190°C). It finds particular application at temperatures of 250°F (121°C) to 350°F (177°C) in sealed quench furnaces for the control of distortion on critical high precision components such as bearing rings or automotive transmission parts in through hardened, carburized and carbonitrided steels.

DATA (TYPICAL VALUES)

Kinematic Viscosity @ 100°F (37.8°C)	350 SUS (75 cSt)
Flash Point (minimum)	445°F (229°C)
Specific Gravity @ 60°F (15.6°C)	0.87
GMQS @ 250°F (121°C) (ASTM D-3520)	14 – 16 seconds

FEATURES/ BENEFITS

- Short vapor phase and fast maximum cooling rate for optimum hardness and physical properties
- Premium hot quenching (martempering) oil providing maximum distortion control of quenched components eliminating the need for rework due to distortion
- Excellent oxidation and thermal stability: Resists formation of sludge and breakdown of oil in use to ensure maximum oil life

HEALTH AND SAFETY

Refer to MSDS for proper handling and disposal. Please note that the MSDS includes handling, health and disposal information which should be passed on to your employees, and to anyone else who comes in contact with our product. Additional advice can also be obtained from your local Houghton representative.

NOTE: Read and understand all precautions on container labels before using this product.

Date | version
Code



HOUGHTON™

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This document contains information based on data that is believed to be correct. However, the product may not be applicable to all uses and operating environments. No warranty or guarantee is expressed or implied.

COOLING CURVE ANALYSIS

By ivf quenchotest

Mar-Temp 355

Test Parameters:

Sample Size - 1 liter
Probe -IFHT Std. Inconel 600

Bath Temp.-
Agitation-

Date: 3/12/2010
250° F
None

Sample #1- Mar-Temp 355



COMMENTS:

Tested according to Houghton International laboratory procedure Q03.