

# Houghto-Quench 3430

## Medium-Fast, High Quality Quench Oil

### DESCRIPTION

Houghto-Quench 3430 is a medium speed quenching oil suitable for use at temperatures up to 180°F (82°C). It is based upon specialty solvent refined base oil to minimize oxidation and ensure consistent performance under the most arduous of operating conditions. A carefully formulated additive package is incorporated into Houghto-Quench 3430 to reduce the duration of the vapor blanket cooling stage and provide moderately accelerated quenching characteristics, together with excellent oxidation resistance and thermal stability.

### FEATURES/ BENEFITS

- Fast cooling rate in initial stage of quenching: Maximum metallurgical and physical properties
- Minimal drag-out of quenching oil: Less smoke and makeup required
- Excellent oxidation resistance and thermal stability: elimination of waste due to quench oil degradation

### DATA (TYPICAL VALUES)

ASTM Color	D8
Viscosity @ 100°F (37.8°C)	24.4 cSt = 108 SUS
@ 40°C (104.0°F)	20.55 cSt = 100 SUS
@ 100°C (212.0°F)	4.17 cSt = 40 SUS
Flash Point	355°F (179.4°C) min
Fire Point	405°F (207.2°C)
Specific Gravity @ 60°F (15.6°C)	0.8855
GM-Quenchometer Speed @ 80°F (26.7°C)	11 - 13 seconds

### 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 International Inc.  
Madison and Van Buren Aves.  
P. O. Box 930  
Valley Forge, PA 19482-0930

Phone: 610-666-4000  
Fax: 610-666-0174  
info@houghtonintl.com  
www.houghtonintl.com

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

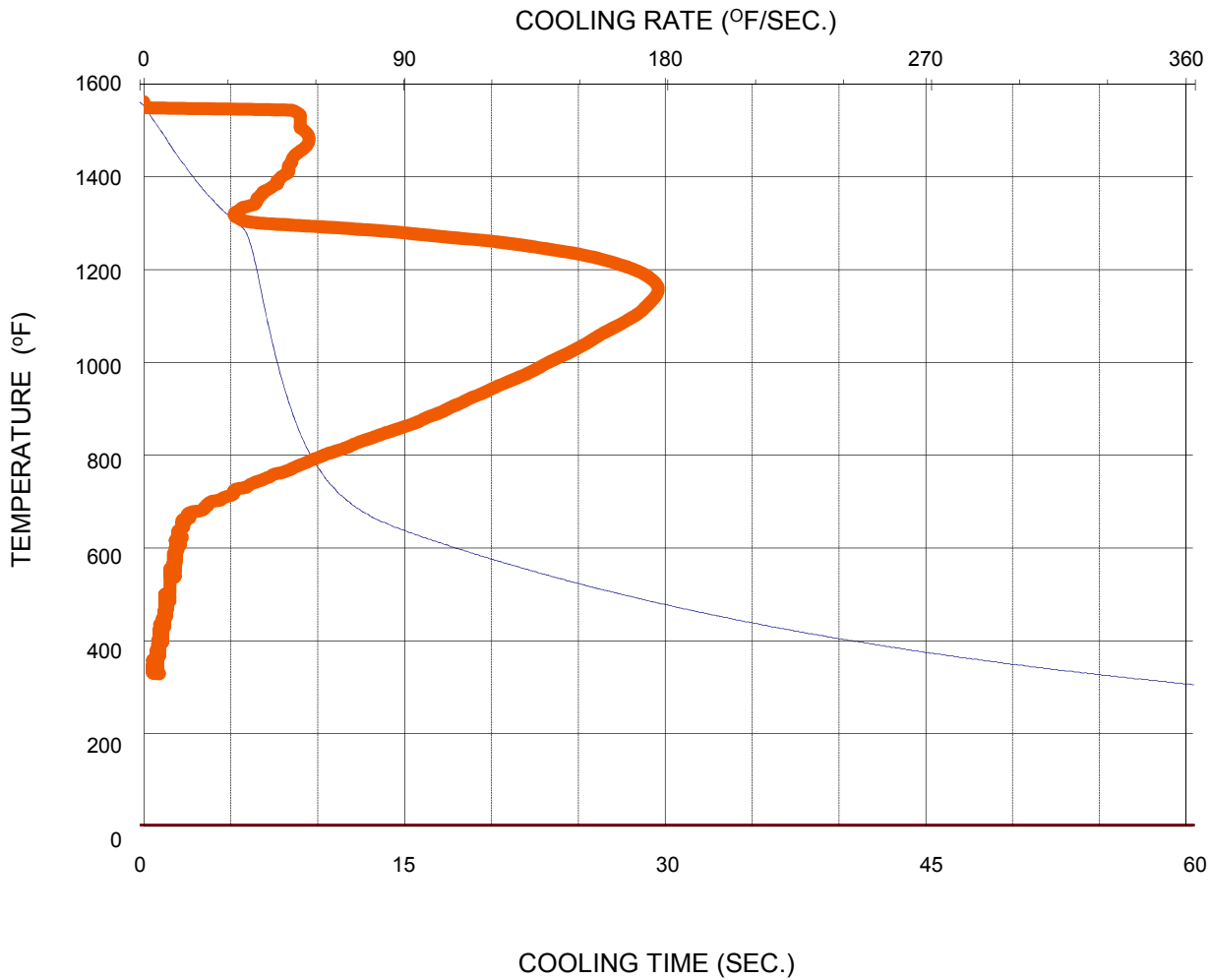
By ivf quenchoetest

## Various

<b>Test Parameters:</b>	Sample Size - 1 liter	QRS # N/A	Date -	11/28/11
	Probe -IFHT Std. Inconel 600		Bath Temp.-	140° F
			Agitation-	None

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**Sample #1-** Houghto-Quench 3430 Control



### COMMENTS:

Tested according to Houghton International laboratory procedure Q03.