

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



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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.

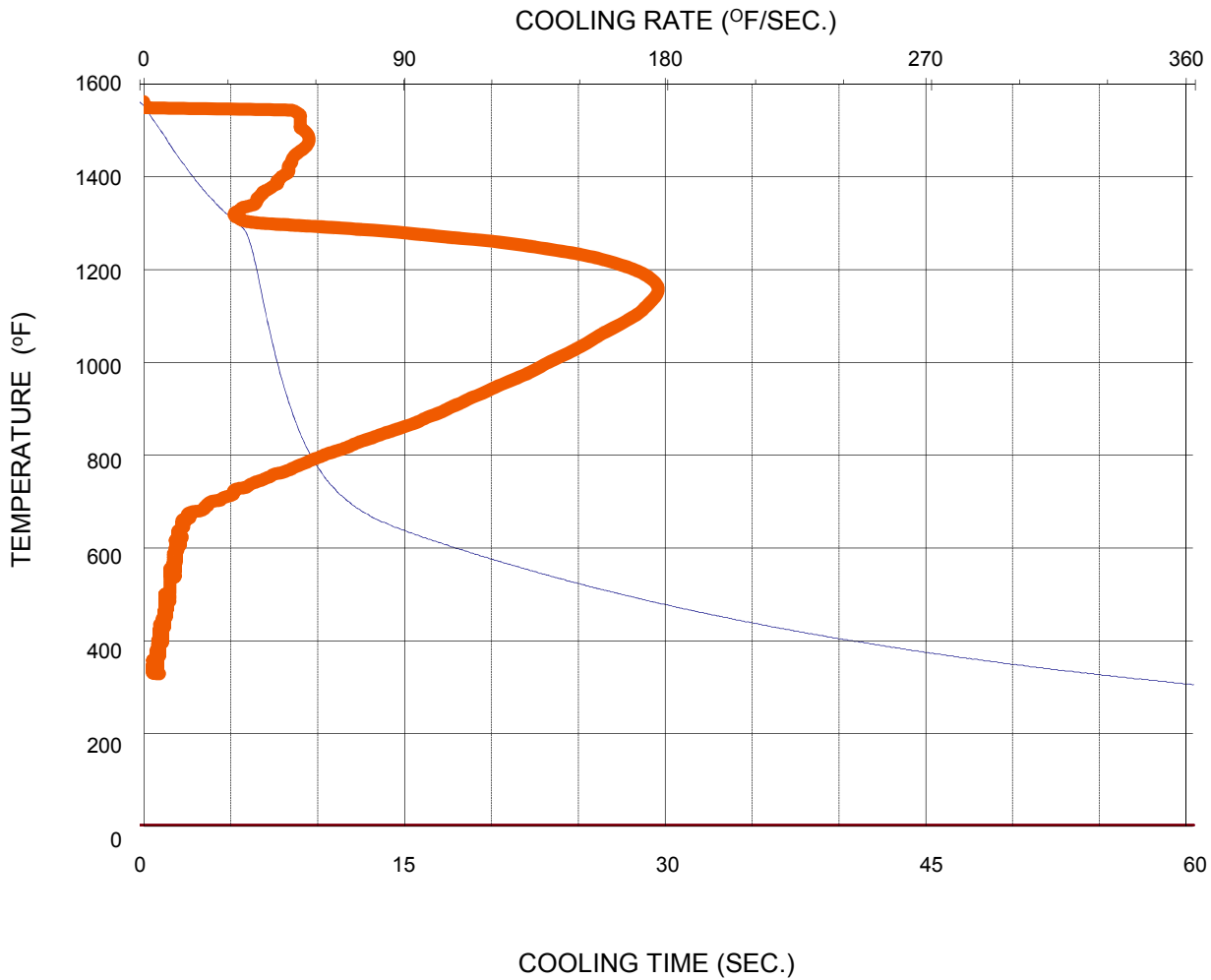
COOLING CURVE ANALYSIS

By ivf quenchoest

Various

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

Sample #1- Houghto-Quench 3430 Control



COMMENTS:

Tested according to Houghton International laboratory procedure Q03.