

# Houghto-Quench® K

High performance, highly accelerated cold quenching oil

## DESCRIPTION

**Houghto-Quench K** is an accelerated quenching oil suitable for use at temperatures up to 180°F (82°C). It is based upon specialty solvent refined paraffinic 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 K** to reduce the duration of the vapor blanket cooling stage and provide 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

## APPLICATION

The highly accelerated speed provided by **Houghto-Quench K** enables the development of optimum strength and hardness with minimum distortion in lower hardenability and low alloy steels, heavy sectioned components or steels of borderline hardenability.

**Houghto-Quench K** is suitable for use in all types of quenching installations including open quench tanks, sealed quench furnaces and continuous furnaces of the shaker hearth, cast link and mesh belt type. It is recommended particularly for applications where staining of components during quenching should be minimized.

## DATA (TYPICAL VALUES)

Kinematic Viscosity @ 100°F (37.8°C)	77 SUS (15.0 cSt)
Flash Point (minimum)	345°F (174°C)
Specific Gravity @ 60°F (15.6°C)	0.86
GMQS @ 80°F (26.7°C) (ASTM D-3520)	7 – 9 seconds

## HEALTH AND SAFETY

Refer to SDS for proper handling and disposal. Please note that the SDS 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.

CF 13.11 US



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.

# Houghto-Quench® K

High performance, highly accelerated cold quenching oil

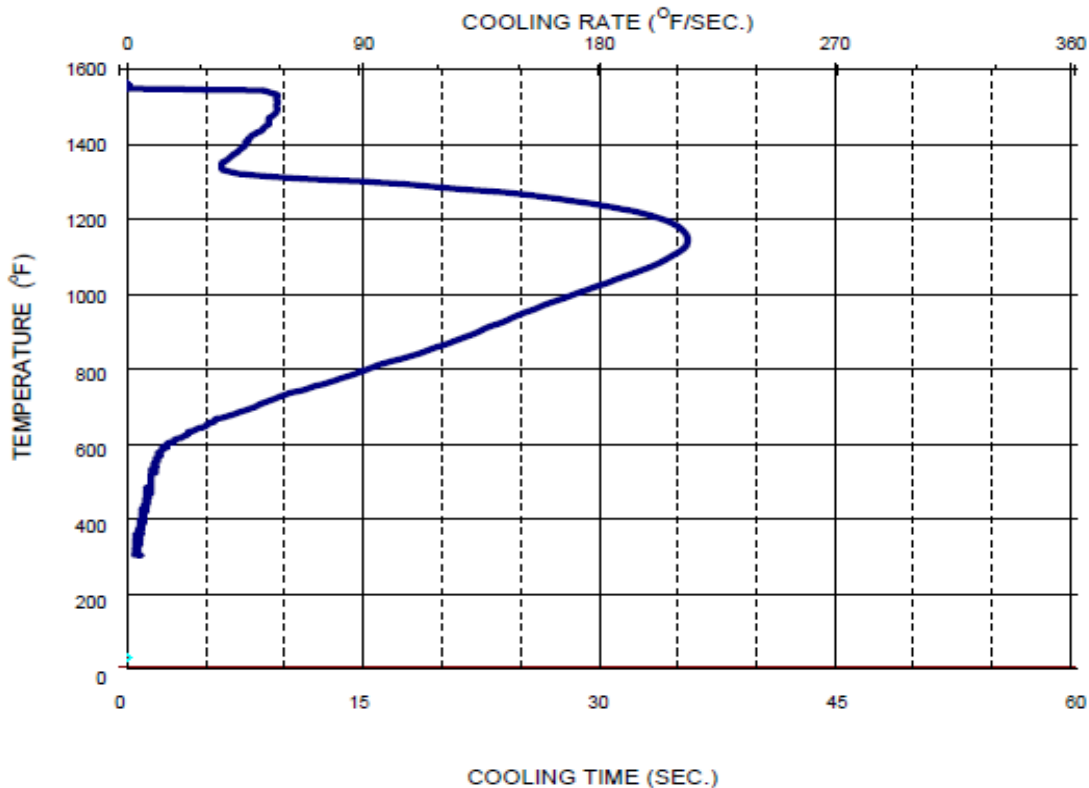
## COOLING CURVE ANALYSIS

By ivf quenchotest

### Houghto-Quench K

<b>Test Parameters:</b>	Sample Size - 1 liter	Bath Temp.-	Date: 3/12/2010
	Probe -IFHT Std. Inconel 600	Agitation-	140° F None

**Sample #1-** Houghto-Quench K



### COMMENTS:

Tested according to Houghton International laboratory procedure Q03.

CF 13.11 US



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.