PRODUCT DATA

AQUA-QUENCH 245

Advanced Bio-stable Polymer Quenchant for Induction and Immersion Hardening Applications

DESCRIPTION

Aqua-Quench 245 is an advanced bio-stable polymer quenchant designed for induction hardening and immersion quenching applications, and represents another breakthrough in technology from Houghton International.

FEATURES/ BENEFITS

Aqua-Quench 245 is a polymer quenchant formulated with a combination of ingredients that provide greater stability to microbial intrusion of the quenchant. Many of today's induction hardening applications require the use of polymer quenchants on a wide variety of parts. Unfortunately due to production requirements, parts may not be washed prior to heat treatment and pre-heat treatment process fluids such as machining coolants, rust preventives, and cleaners can contaminate the quench tank. These products can cause degradation of the quenchant.

Aqua-Quench 245 is specifically designed for use in induction and immersion hardening applications to minimize residual sticky deposits on equipment and quenched parts, and extend system life. The quenching speed of Aqua-Quench 245 solutions can be selected to suit the steel hardenability and com-

DATA (TYPICAL VALUES)

Appearance	Clear to Slightly Hazy Fluid
Kinematic Viscosity @ 100°F (37.8°C)	195 cSt
Specific Gravity @ 60°F (15.6°C)	1.07
pH	10.3

FEATURES/ BENEFITS

- Bio-stable technology to extend system life, minimize recharging and increased production
- Designed for induction hardening applications: Minimizes residual sticky deposits on equipment and quenched parts provide cleaner operations and prevents blockage of spray nozzles and filters
- Uniform quenching eliminates steam pockets and formation of soft spot associated with water quenching
- Water based quenchant to eliminate fire hazard and smoke associated with quenching oils along with cleaner parts and safer working environment

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 I version
Code

HOUGHTON™

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

COOLING CURVE ANALYSIS

By ivf quenchotest

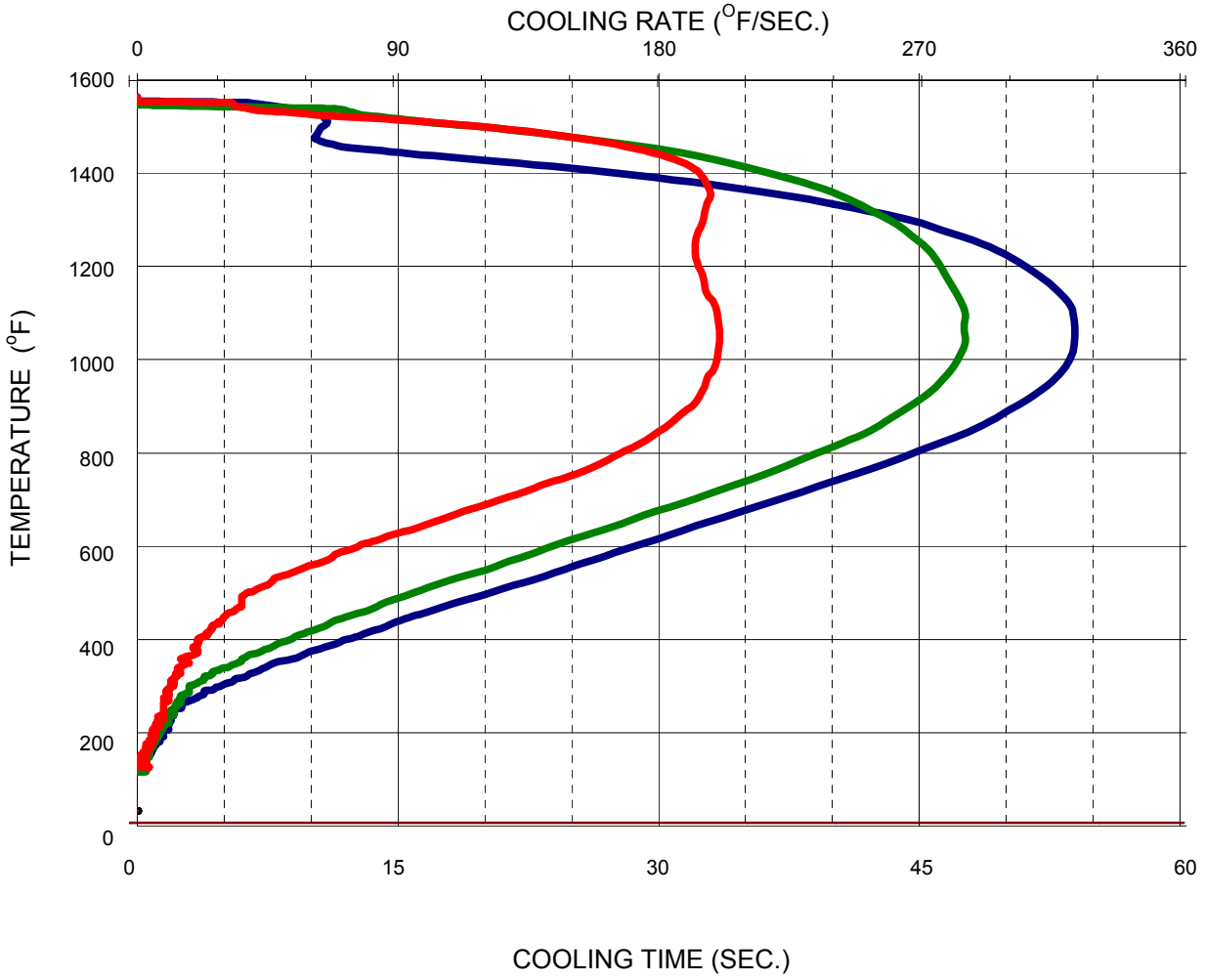
Aqua-Quench 245

QRS # 0 Date: 3/12/2010

Test Parameters: Sample Size - 1 liter Bath Temp.- 100° F

Probe -IFHT Std. Inconel 600 Agitation - Moderate

Sample #1-	Aqua-Quench 245	5%
Sample #2 -	Aqua-Quench 245	10%
Sample #3 -	Aqua-Quench 245	15%



COMMENTS:

Tested according to Houghton International laboratory procedure Q03.