

TECHNICAL DATA SHEET

AQUA-QUENCH® 145

ADVANCED BIO-STABLE POLYMER QUENCHANT FOR INDUCTION HARDENING APPLICATIONS

AQUA-QUENCH® 145 is an advanced bio-stable polymer quenchant designed for induction hardening and immersion quenching applications, and represents another breakthrough in technology from Quaker Houghton.

Applications

AQUA-QUENCH® 145 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® 145 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® 145 solutions can be selected to suit the steel hardenability and components requirements by varying the concentration of the solution.

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
- Water based quenchant to eliminate fire hazard and smoke associated with quenching oils along with cleaner parts
- Uniform quenching eliminates steam pockets and formation of soft spot associated with water quenching

Health, Safety and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance	Clear to slightly hazy amber liquid	
Kinematic Viscosity at 100°F (37.8°C)	120 - 145	cSt
pH at 10%	10	
Specific Gravity at 60°F (15.5°C)	1.06	
Refractometer Factor	2	

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