

TECHNICAL DATA SHEET

AQUA-QUENCH® 260

OIL-FREE, NON-FLAMMABLE, WATER SOLUBLE SYNTHETIC QUENCHANT FOR THE HARDENING OF FERROUS AND NON-FERROUS ALLOYS

AQUA-QUENCH® 260 is an oil free, non-flammable, water soluble synthetic quenchant for the hardening of ferrous alloys and solution treatment of aluminum alloys.

Applications

AQUA-QUENCH® 260 is a versatile water soluble polymer quenchant for use in both ferrous and aluminum alloys.

Recommendations for Use

AQUA-QUENCH® 260 is used for the hardening of ferrous forgings, castings and stampings. It can be used in open quench tanks, continuous furnaces, and selective surface hardening equipment.

The flexibility of quenching speed and uniform heat transfer characteristics of AQUA-QUENCH® 260 eliminates many of the disadvantages of water or mineral oil based quenchants.

AQUA-QUENCH® 260 can also be used for the solution treatment of aluminum alloys. AQUA-QUENCH® 260 complies with Aerospace Material Specification AMS 3025 as a Type I polymer quenchant. It can be used for processing a wide range of aluminum alloys such as 2024, 6061 and 7075, and is suitable for cast and forged components, extruded sections, brazed fabrications and assemblies manufactured from thin gauge sheet.

The quenching speed of AQUA-QUENCH® 260 solutions can be selected to suit the steel hardenability and components requirements by varying the concentration of the solution.

Benefits

- Uniform quenching eliminates steam pockets and formation of soft spots associated with water quenching
- Flexibility of quenching speed helps to minimize distortion and provide excellent dimensional control
- Water based quenchant to eliminate fire hazard and smoke associated with quenching oils along with cleaner parts

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 fluid	
Kinematic Viscosity at 100°F (37.8°C)	520	cSt
pH	8.8	
Specific Gravity at 60°F (15.6°C)	1.09	
Refractometer Factor	2.0	

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