

# Aqua-Quench® 3699J

## Advanced biostable polymer quenchant

### DESCRIPTION

**Aqua-Quench 3699J** is a water soluble quenchant with oil-like quenching characteristics. **Aqua-Quench 3699J** is an advanced polymer quenchant designed for both low and high hardenability steel applications. Its quenching characteristics can be varied between those of water and normal speed cold quenching oil by varying the concentration of the solution.

### APPLICATION

The quenching speed of **Aqua-Quench 3699J** can be selected to suit the steel hardenability and component requirements by varying the concentration and temperature of the solution and the degree of agitation in the quench tank.

**Aqua-Quench 3699J** was developed to extend the range of polymer quenchant applications to higher hardenability, thinner section steels and alloys not previously considered suitable for quenching in conventional polymer quenchants. **Aqua-Quench 3699J** is used generally at concentrations of between 5% and 25% in order to provide the most oil-like quenching characteristics. It can be used in many different types of furnace applications including continuous mesh belt, shaker hearth, and rotary furnaces as well as for direct quenching into open quench tanks.

### DATA (TYPICAL VALUES)

Appearance	Hazy amber liquid
Kinematic Viscosity @ 100°F (37.8°C)	1475 cSt
Specific Gravity @ 60°F (15.6°C)	1.05
pH, neat	9.9

CF 14.03 US

### FEATURES / BENEFITS

- Advanced polymer quenchant providing oil-like quenching characteristics and less distortion eliminating the need for re-work
- Water based quenchant to eliminate fire hazard and smoke associated with quenching oils along with cleaner parts and safer working environment
- Flexibility of quenching speed helps to minimize distortion and provide excellent dimensional control
- Nitrite free corrosion inhibitor providing good short term rust protection of heat treated components

### 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.



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