

AQUA QUENCH 251

Synthetic Polymer Quenchant P.A.G. Type

DESCRIPTION

AQUA QUENCH 251 is a polyalkylene glycol (P.A.G) type polymer quenchant. When mixed with water Aqua Quench 251 will provide a quenching rate that gives uniform quenching without smoke or fire.

Thousands of tonnes of forgings, rod, machined and formed steel components have been quenched using **AQUA QUENCH 251** polymer solutions.

AQUA QUENCH 251 lets you control the quenching speed to your needs by simply adjusting the concentration, agitation and temperature to suit particular requirements.

FEATURES

- No fires, no fumes, no mess.
- Uniform hardening
- Adjustable cooling rate
- Easy wash off properties
- Can replace oil quench
- Low cost in-use
- Oil free

TYPICAL VALUES

Appearance	Am-
ber viscous liquid	
Density 15°C (kg/L)	1.08
pH (neat)	9.5
Viscosity @ 40°C (cSt)	280
Refractometer Factor	2.35

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.

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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.

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REFERENCES

HOW TO USE

AQUA QUENCH 251 is ideal for induction and flame hardening processes at concentrations from 5-15%. Other quenching applications for steels, dependent on the steel grade and geometry of components require specific concentrations eg, if steel carbon content is high then a higher concentration of **AQUA QUENCH 251** would be used compared with a steel of low carbon content. Variable quenching speeds can be obtained by changing the concentration, the temperature and the agitation of the quenchant. While consistent quenching results can be obtained by controlling concentration, temperature and agitation.

Increased concentration slows down cooling rate

Increased temperature slows down cooling rate

Increased agitation increases cooling rate

SHELF LIFE & AVAILABILITY

Under normal conditions the recommended shelf life for **PRODUCT** is a minimum of Twelve (12) months, unless otherwise specified.

PRODUCT is available in 205 litre drums. Other sizes may be available upon request, please contact your Houghton sales representative.

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RELATED PRODUCTS

- CUT-MAX: Straight cutting oils
- HOCUT: Water miscible metalworking fluids
- DROMUS: Soluble metalworking fluids
- ADRANA: Micro-emulsion metalworking fluids
- METALINA: Synthetic metalworking fluids
- HOUGHTO-GRIND: Straight and water miscible grinding fluids
- HOUGHTO-DRAW: Straight and water miscible drawing stamping and forming fluids.
- CINDOL: Straight and water miscible drawing and forming fluids especially for Aluminium parts.
- CERFA-KLEEN: Water miscible cleaning fluids
- RUST VETO: Straight and water miscible rust preventive fluids.

FLUID MAINTENANCE

These can be routinely performed and organised through Houghton's Customer Service laboratory, please contact your sales representative for further information about this service.



HOUGHTON™

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