

MAK AQUENCH

Description

This is a special quenching fluid of concentrated aqueous polymer solution fortified with performance enhancing additives. Polymer film controls cooling rate of metal and helps to achieve the desired hardness.

Application

This product is used in controlled quenching of plain carbon steels and low alloy steels. It is recommended for the following processes

- Surface hardening
- Forging
- Casting
- Immersion quenching of steel components
- Induction hardening and spray quenching

Cleaning : Due to inverse solubility of MAK AQUENCH, parts quenched in MAK AQUENCH solutions will have a polymer film covering them. This polymer film is easily removed by rinsing the quenched part in the plain cold water. Parts that have been tempered before cleaning may require longer cleaning cycles to remove the dried on polymer film.

Benefits

- Quenching properties without stress, crack and distortion.
- Elimination of soft spots
- Controlled cooling rate during convection phase
- Retains stability over wide range usage range.
- Free from soot formation and fumes generation
- Non-Flammable
- Corrosion protection – excellent even in 3% aqueous solution
- Solubility in water - dissolves easily and quickly at use concentration of 3-50%, depending upon quench speed desired.

PERFORMANCE LEVEL

Proprietary grade

Technical Specifications

Characteristics	ASTM	MAK AQUENCH
Appearance	Visual	Pale yellow coloured, viscous Liquid
K.V at 40° C, cSt	D445	700-750 cSt
pH		8.8 to 9.8
Sp. Gr. At 30°C	D1296	1.13 ± 0.05
Cloud Point		50-55°C

All the mentioned values are typical which may vary from batch to batch.

Storage and Handling

- Indoor Storage is always preferable
- Barrels should be kept horizontally with bung position at 3'o clock 9 'o clock position
- Barrels should be kept away from dusty or heated areas as much as possible

Health and Safety

These oils are not hazardous under normal conditions of use. For further guidance appropriate Material Safety Data Sheet may be referred.

Advice

For any further advice on applications or otherwise please contact the nearest Bharat Petroleum Territory Office or Technical Services Department at the address given below.

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