



# FICHE TECHNIQUE

## TREMP AQ58

POLYMER QUENCHANT FOR INDUCTION HEAT TREATING

### APPLICATIONS

**TREMP AQ58** is a polyalkylene glycol-based polymer quenchant for induction and flame heat treating applications.

In order to adapt to the hardenability of the steel and the demands of the component, the quenching speed can be adjusted by varying the concentration of the solution.

- The **TREMP AQ58** solutions between 1 and 5% improve the wetting capacity of the surface of the component in order to make the quenching more even and prevent the formation of soft spots. These low concentrations are generally used for low-hardenability steel.
- The **TREMP AQ58** solutions between 5 and 20% offer a range of cooling rates that are comparable with those of soluble oil emulsions and quenching oils, and are used for high-hardening steel.

**TREMP AQ58** is typically used at about 30°C, but it can be used at up to 50°C. Note that temperature fluctuations greatly influence the drastic fluid properties (metallurgical risks), so machines are usually equipped with a cooling unit. Beyond this, evaporation also becomes very significant leading to faster concentration fluctuations.

### BENEFITS

**TREMP AQ58** was formulated to minimise the deposits sticking to the equipment and parts. It offers a resistance to microbial contamination and extends the service life of the system. Furthermore, it contains no nitrites, boron, diethanolamine (DEA) and formaldehyde releasers.

- ◆ Adjustable quenching speed
- ◆ Eliminates smoke and odours during quenching process
- ◆ Nitrite-free anti-corrosion system
- ◆ No risk of fires and prevents the surfaces around the quenching tank from becoming oily

### CHARACTERISTICS

| CHARACTERISTICS                   | UNITS              | METHODS         | TYPICAL DATA |
|-----------------------------------|--------------------|-----------------|--------------|
| Appearance/Colour                 | -                  | visual          | Clear green  |
| Density at 15°C                   | -                  | NF EN ISO 12185 | 1.070        |
| Kinematic viscosity at 40°C       | mm <sup>2</sup> /s | ASTM D 445      | 44           |
| Refractometer reading coefficient | -                  |                 | 2.8          |
| pH                                | -                  |                 | 9.5          |

*The average specifications provided are approximate values*



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### HEALTH, SAFETY AND ENVIRONMENT

Disposal must be conducted in compliance with applicable rules on the disposal of used quenching fluids.

The products must be stored in a clean and dry sheltered area and protected from cold temperatures. The recommended storage temperature ranges from 5°C to 40°C unless stipulated otherwise. Make sure that there is a good stock turnover rate.

Use-by date: manufacturing date +12 months.

Our technical department is at your disposal to assist you.

Fiches de données de sécurité disponibles sur le site internet : [www.quickfds.com](http://www.quickfds.com) ou sur simple demande.

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### UNIL OPAL

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