

POLYQUENCH BW-550N

Aqueous, synthetic quenchant

General properties

POLYQUENCH BW-550N is a viscous fluid with reverse solubility. Cooling characteristics of BW-550N solutions with different concentrations are similar to an ordinary mineral oil and tap-water as well. The excellent cooling characteristics of BW-550N indicate that high cooling rate like water is still kept even under higher concentration at high and medium temperatures, while there is a slow cooling rate almost like oil at lower temperatures.

Typical properties

Items	Results	Test method
Appearance, conc	Transparent	Visual
Specific gravity, 15/4 °C	1.066	ASTM D1298
Kinematic Viscosity, 40 °C, mm ² /s	310	ASTM D 445

Operating Concentration

- | | |
|--|----------------|
| 1. Plane carbon steel and low alloy steel | : 3 to 15 wt% |
| 2. Carburizing and Nitrided steel, alloy steel | : 5 to 10 wt% |
| 3. Direct quenched from hot forged temperature | : 15 to 24 wt% |
| 4. Coil and plate spring | : 10 to 20 wt% |
- For optimum concentrations suitable for different materials and work-pieces

Temperature control

The best operating temperature of BW-550N E for quenching should be between 25 and 35 °C, max 50 °C. Temperatures should never exceed 60 °C. If the temperature is above 60 °C, the solution should be cooled down to 40 °C before the next hardening of pieces.

Term of validity

12 months from the date of manufacture at sealed state.

Safety information

Refer to the our MSDS for safety information.

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