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Product Information

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## UNIQUENCH 70

**Product Description** **UniQuench 70** is formulated with virgin, low viscosity, paraffin base stocks to resist oxidation and exhibit high flash points, all advantageous properties for quench oils. These chemical and physical properties enable our product to maintain a long service-life with dependable and consistent results.

**UniQuench 70** will not hold water in suspension; moisture will settle where it can be drained off. Excellent oxidation characteristics offer another effective method for eliminating any moisture content. Elevate the bath temperature to approximately 220°F with sufficient agitation until the moisture is driven/boiled off. Various competitive quench accelerators tend to set-up on the work piece during the quench and are carried out of the heat treating medium; our product remains stable with no loss from drag out.

**Applications** **UniQuench 70** transfers heat from the workpiece surface to the quenching medium at an infinitely rapid rate so that the surface temperature of the workpiece is lowered instantly to the temperature of the quenching medium and maintained at that temperature for the duration of the quench. After initial cooling, it continues to extract heat from the core through the surface where the heat can be dissipated by the quenching medium. Uniform hardness values are obtained by the slow, controlled cooling in the lower temperature range, which assists in avoiding warping, strain and cracking.

For maximum hardness, maintain **UniQuench 70** oil temperature from 120 - 180°F with sufficient agitation. Where better distortion control is required, elevate the oil temperature to 200 -220°F.

### For Best Quenching Results

- Maintain the recommended oil temperature, if the temperature is permitted to get too low, spotty hardness may result.
- Good agitation is critical to obtain uniform, maximum hardness
- Keep the oil free from moisture contaminate, less than 1% may cause spotty hardness, stresses and increased distortion. Also represents major fire hazard.

## UNIQUENCH 70

### Benefits

- Dependable and consistent results
- Long service life
- 100% Petroleum Hydrocarbon
- Increase core hardness values
- Controlled cooling
- Will not hold water in suspension

### Typical Specifications

<b>Appearance</b>	<b>Clear Dark</b>
<b>Viscosity cSt @100°F</b>	<b>13.08 – 16.90</b>
<b>Viscosity SUS @100°F</b>	<b>70 - 85</b>
<b>A.P.I. Gravity @60°F</b>	<b>32 -36</b>
<b>Flash Point °F</b>	<b>340 min.</b>
<b>Fire Point °F</b>	<b>370 min.</b>
<b>Heat Extraction Rate - ASTM 3520</b>	<b>12 – 14 sec.</b>

Refer to Universal Oil's Material Safety Data Sheet (MSDS) 16 28 24 for additional information.

*The statements, technical information and recommendations contained herein are reliable, but given without warranty or guarantee of any kind. We assume no responsibility for loss, damage or expense, direct or consequential, arising out of the use of, or inability to use, our goods.*

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