

# HOUGHTO-QUENCH C 120

(Formerly HOUGHTO-QUENCH 120)

HIGH PERFORMANCE COLD QUENCHING OIL – (ISO 6743-14) UHB

## DESCRIPTION

HOUGHTO-QUENCH C 120 is a high performance medium speed quenching oil suitable at temperatures of up to 100°C. A carefully formulated additive package is incorporated into HOUGHTO-QUENCH C 120 to reduce the duration of the vapour blanket stage and provide moderately accelerated quenching characteristics, together with excellent oxidation resistance and thermal stability.

HOUGHTO-QUENCH C 120 has Rolls Royce approval CSS 153 Type A.

## APPLICATIONS

The medium speed provided by HOUGHTO-QUENCH C 120 enables the development of improved strength and hardness with minimum distortion in lower hardenability and low alloy steels, heavy sectioned components or steels of borderline hardenability.

HOUGHTO-QUENCH C 120 is suitable for use in all types of quenching installations including open quench tanks sealed quench furnaces and continuous furnaces of the shaker hearth, cast link and mesh belt type. It is recommended particularly for applications where staining of components during quenching should be minimised.

## TYPICAL PHYSICAL PROPERTIES

<i>Appearance</i>	<i>Clear amber</i>	<i>visual</i>
<i>Specific Gravity @ 15.5°C</i>	<i>0.869</i>	
<i>Kinematic Viscosity @ 40°C in mm<sup>2</sup>/s</i>	<i>24</i>	<i>ASTM D445</i>
<i>Kinematic Viscosity @ 100°C in mm<sup>2</sup>/s</i>	<i>5</i>	<i>ASTM D445</i>
<i>Flash Point COC in°C</i>	<i>216</i>	<i>ASTM D92</i>
<i>Maximum Cooling rate in °C/s @ 40°C</i>	<i>80</i>	<i>ISO 9950</i>

## BENEFITS

- Economic – Lifetime improved provided by excellent oxidation resistance and thermal stability
- Economic - Consistent performance under the most arduous of operating conditions
- Economic - Uniform quenching characteristics maintained over a range of operating temperatures
- Operator friendly - Base oil highly refined

## RECOMMENDATION FOR USE

Use as supplied - neat quenching oil application

## RELATED PRODUCTS

Product is compatible with the full range of Houghton's portfolio, especially with the Houghto-Clean and Ensis corrosion protection range. For more information, please contact your local Houghton representative.

## STORAGE

Please refer to section 7 of Safety Data Sheets for handling and storage information, including product shelf life. Product should be stored under cover in clean, dry conditions and protected from frost. Recommended storage temperature is usually between 5°C and 40°C unless otherwise specified. Use stock in delivery rotation.

## HEALTH AND SAFETY

Safety data sheets are available in accordance with Regulation (EC) No 1907/2006 Annex II where a substance or preparation meets the criteria in accordance with Directives 67/548/EEC or 1999/45/EC.



# HOUGHTO-QUENCH C 120

(Formerly HOUGHTO-QUENCH 120)

HIGH PERFORMANCE COLD QUENCHING OIL – (ISO 6743-14) UHB

## COOLING CURVE - EFFECT OF TEMPERATURE ON QUENCHING CHARACTERISTICS

