

# Voluta C 202

High performance normal speed quenching oil

## DESCRIPTION

Voluta C 202 is normal speed quenching oil generally used at temperatures of up to 80°C. It is based upon specially selected solvent refined mineral oils to ensure consistent performance under the most arduous operating conditions. It is formulated to give exceptional thermal stability with maximum resistance to oxidation and sludging.

## APPLICATION

Voluta C 202 is designed for general purpose and salt bath quenching applications. It can be used in conjunction with carbonitriding and carburizing processes and is suitable for use in open quench tanks, sealed quench furnaces and continuous furnaces of the shaker hearth, cast link and mesh belt type.

## FEATURES

- ❑ Suitable for a wide variety of quenching applications including cyanide salt bath treatment
- ❑ Consistent performance under the most arduous of operating conditions
- ❑ Uniform quenching characteristics maintained over a range of operating temperatures
- ❑ Excellent oxidation resistance and thermal stability to resist the formation of sludge and the breakdown of oil during quenching

## PHYSICAL PROPERTIES

Test	Typical Value
Appearance	Light Yellow
Specific Gravity at 15.6°C	0.851
Kinematic Viscosity	40°C 30 cSt
	100°C 5.3 cSt
Flash point (open)	210°C

## QUENCHING CHARACTERISTICS – see over

Consistent quenching characteristics are maintained over a wide range of operating temperature. The maximum rate of cooling remains almost constant over the temperature range 20 - 80°C ensuring reproducible hardness and mechanical properties in quenched components.

## CLEANING

The high thermal stability of Voluta C 202 minimises increase in viscosity due to oxidation and therefore decreases oil retention on components and reduces drag-out losses.

Voluta C 202 can be removed from components after quenching by using one of the comprehensive range of Houghton cleaners.

Details of the Houghto-Clean Series are readily available upon request.

## STORAGE

Contamination of quenching oils with water can produce problems such as soft spots, distortion and cracking of components, and increased fire hazards. Barrels should be stored horizontally and kept tightly sealed and bulk storage tanks designed to prevent the ingress of water. The product should be stored inside (5-40°C) for no more than 2 years and be protected from freezing. All drums, tanks and containers should be clearly marked with the contents and should be used in delivery rotation. The recommended shelf life for Voluta C 202 is 24 months

## HEALTH AND SAFETY

Health and Safety Data Sheets are supplied to customers to comply with Section 6 of the Health and Safety at Work Act 1974, and should be closely studied prior to handling or use of the product. Copies are available from your Technical Health and Safety Officer. Various other advisory publications are available from the Health and Safety Executive and Her Majesty's Stationery Office.

All data given in this Product Data Sheet are typical of this material. It does not however constitute a specification. We reserve the right to modify products without prior notice. All products, services and information supplied are provided upon the terms of our standard Conditions of Sale from time to time in force.

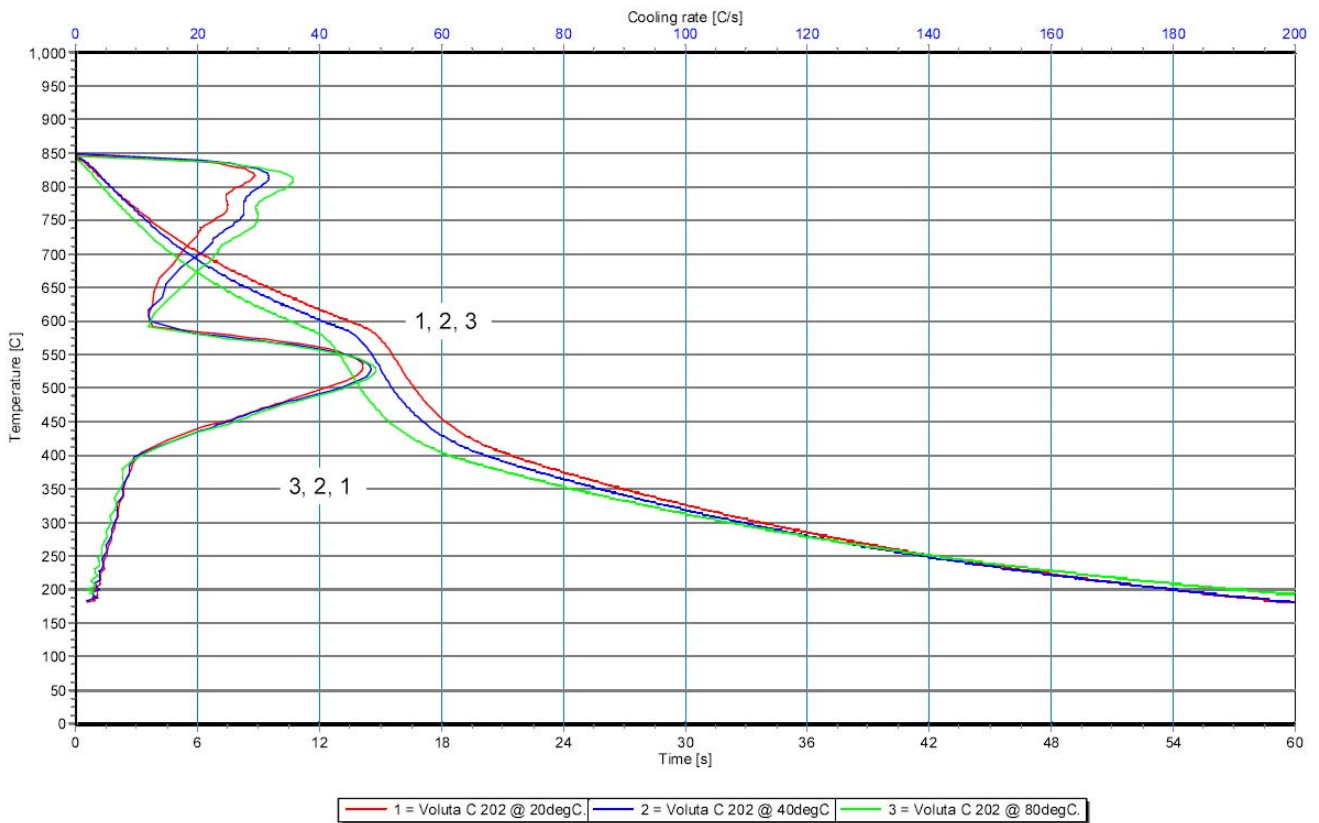
**Houghton plc**  
Beacon Road Trafford Park Manchester M17 1AF  
Tel +44(0) 161 874 5000  
Fax +44(0) 161 874 5001  
E-mail [uk.enquiries@houghtoneurope.com](mailto:uk.enquiries@houghtoneurope.com)



**HOUGHTON™**

# Voluta C 202

## Effect of temperature on quenching characteristics



50504  
02/11

All data given in this Product Data Sheet are typical of this material. It does not however constitute a specification. We reserve the right to modify products without prior notice. All products, services and information supplied are provided upon the terms of our standard Conditions of Sale from time to time in force.