

VOLUTA C 201

Normal speed cold quenching oil

DESCRIPTION

Voluta C 201 is a standard speed quenching oil suitable for use at temperatures up to 80°C. It is based upon specially selected paraffinic base oils with thermal stability and excellent resistance against oxidation.

Voluta C 201 has a conventional vapour blanket phase and provides low cooling rates.

APPLICATION

Voluta C 201 is recommended for conventional quenching of easy to hard alloyed steels in cold quenching operations.

Voluta C 201 is suitable for use in all types of quenching installations and especially in open quench tanks.

Voluta C 201 can be used after a salt bath.

The low viscosity makes it suitable for quenching of small pieces where drag-out has to be reduced.

The lifetime of the quenching oil depends on temperature control. Make sure that the heating components, the cooling systems and the agitation system all work properly.

ADVANTAGES

- ❑ Low aromatic components
- ❑ High oxidation resistance
- ❑ Low viscosity

STORAGE

Product should be stored under cover in clean, dry conditions and protected from frost. Recommended storage temperature is between 5°C and 35°C. Use stock in delivery rotation. A shelf life of twelve months can be anticipated.

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.

TYPICAL PHYSICAL PROPERTIES

TEST	TYPICAL VALUE	TEST METHOD
Kin. Viscosity @ 40°C	21	ASTM D445
Kin. Viscosity @ 100 °C	-	ASTM D445
Specific Gravity @ 20°C	0.857	ASTM D 4052
Flash point COC °C	210	ASTM D 92
Flash point PMCC °C	180	ASTM D 93
Color	Light yellow oil	

QUENCHING PROPERTIES

INCONEL PROBE – STATIC SYSTEM Temperature of oil 40°C	TYPICAL VALUE
Maximum cooling rate in °C/s	47.4
Temperature @ maximum cooling rate in °C	524.9
Cooling rate at 300°C in °C/s	6.7
Time to reach 600°C in s	13.5
Time to reach 400°C in s	19.5
Time to reach 200°C in s	51.7

05/11

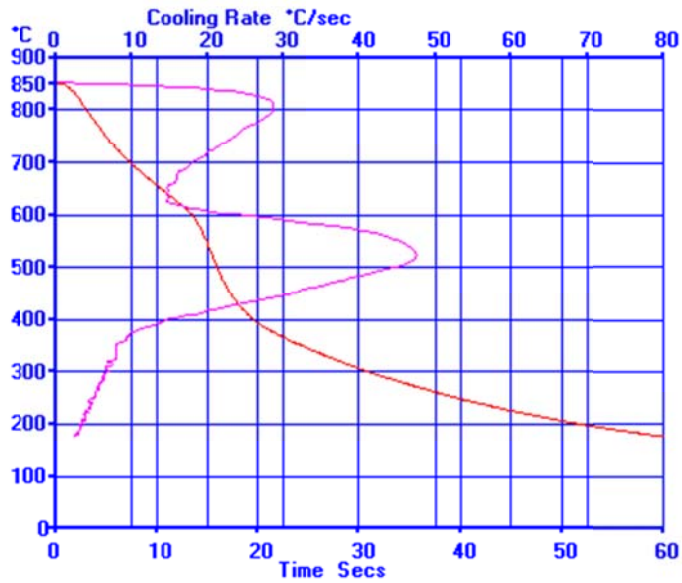
All data given in this Product Data Sheet are typical of this material. It does not however constitute a specification. We reserve the right to modify products without prior notice. All products, services and information supplied are provided upon the terms of our standard Conditions of Sale from time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

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



HOUGHTON™



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



HOUGHTON™