



Shell VOLUTA C 201

Neat Quenching Oil

Shell Voluta C 201 is a cold quenching oil for hardening steels with alloy content.

Applications

Shell Voluta C 201 is a cold quenching oil, which can be used between 30° C to 80° C.

Like any quenching oil from Shell Voluta range, Shell Voluta C 201 is formulated with high quality base oils and additives selected with careful attention, in order to maintain performance for long periods.

The quenching properties of Shell Voluta C 201 remain constant so you can use it for hardening steels with an alloy content.

Shell Voluta C 201 flash point guarantees a high security level.

Performance Features and Benefits

- Low aromatic components
- Low viscosity

Storage

The product should be stored inside (5-40°C) no more than 2 years and be protected from freezing.

Health & Safety

Information is available on the Material Safety Data Sheet (MSDS).

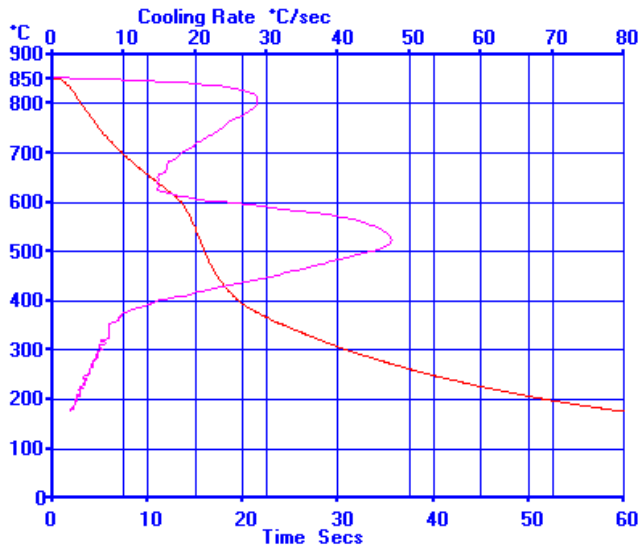
Protect the environment

Waste must be disposed of in accordance with EC Directive 91/156, 91/689 and 94/62

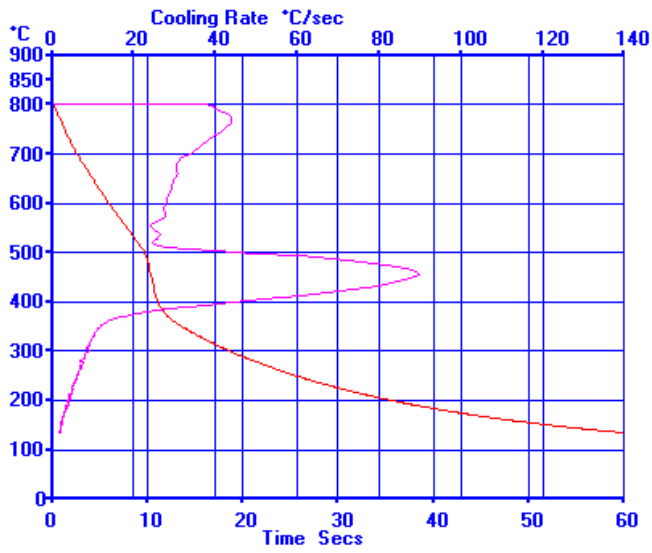
Typical Physical Characteristics

			Shell Voluta C 201
Appearance			Clear Yellow
Kinematic Viscosity @ 40°C	mm ² /s	(ASTM D 445)	20
Kinematic Viscosity @ 100°C	mm ² /s		-
Density @ 15°C	kg/m ³	(NFT 60172)	860
Flash Point PMCC	(°C)	(ASTM D 93)	180
Flash Point COC	(°C)	(ASTM D 92)	210
Quenching Parameters @ 50°C (NFT 60178) Silver Probe			
θ 1			518
θ 2			366
θ 1-θ 2			152
Quenching parameters @ 40°C (ISO 9950) Inconel Probe			
Vr Maximum cooling rate (°C/s)			47.4
θVr Temperature at maximum cooling rate (°C)			524.9
Vr @ 300°C cooling rate at 300°C (°C/s)			6.7
Time to reach 600°C			13.5
Time to reach 400°C			19.5
Time to reach 200°C			51.7

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.



INCONEL PROBE
Oil temperature : 40°C



SILVER PROBE
Oil temperature: 50°C