

Q8 Vulcan range (including Q8 Induco 19)

Heat Treatment and Heat Transfer Oils

Product Description

The Q8 Vulcan range are heat treatment oils and they are made of five products, available in different viscosity grades. They are manufactured from solvent-refined mineral oils carefully selected for their inherent oxidation resistance. This natural characteristic is reinforced by additive treatment to maximise thermal stability over long periods, to provide accelerated quench rates where required and, in one formulation, a coupling agent is incorporated to assist degreasing with water based systems.

Applications

Q8 Vulcan Oils are designed for use in heat-treatment baths for the quenching and tempering of steel components. Specifically the various grades are recommended for use as follows:

Q8 Induco 19 & Q8 Vulcan 22 - General-purpose oils for quenching small components, including those subjected to cyanide salt-bath treatment, at normal quench-rates. Ideal temperature range is 20-80°C.

Q8 Vulcan 22Q - used over the same temperature range Vulcan 22Q contains special additives which provide an accelerated quench-rate where required. It gives excellent results in the hardening of low-carbon steels and where maximum hardness is required in oil-hardening steels. It also contains additional oxidation inhibitors, which not only contribute to an extended service-life but also ensures that the product is non-staining, making it the preferred choice when treated components are required to have a clean, bright appearance.

Q8 Vulcan 32A - is a medium-viscosity general-purpose product similar in performance to Vulcan 22, but intended for quenching larger components. It incorporates oxidation inhibitors, and will give extended service-life over a working-temperature range of 30°C to 100°C. Its characteristics make Q8 Vulcan 32A ideally suitable also for use as the heat-transfer medium in domestic and industrial oil-filled heaters, panel radiators and towel-rails.

Q8 Vulcan 518 - Medium viscosity, high speed quenching oil for quenching medium sized workpieces and heavy sections. It has a low cooling rate at martensite formation temperature, with low volatility and low fuming tendencies.

Q8 Vulcan 320 - high viscosity general purpose quench oil.

Selection of the Vulcan grade for your particular application should be made in conjunction with your Q8 representative. If it is intended to use any Q8 product for any other than its recommended use, prior approval should be obtained from Q8.

Main Features and Benefits

- High chemical and thermal stability ensure long service-life
- Excellent resistance to sludging and thickening in service
- Minimal "drag-out"
- Vulcan 32A ideally suited as heat-transfer medium

Typical Inspection Data

Vulcan	Q8 Induco 19	22Q	22	32A	518	320
Specific Gravity at 15°C	0.86	0.861	0.861	0.87	0.865	0.895
Kinematic Viscosity cSt at 40°C	19.6	20.5	21.2	32	26.5	320
Kinematic Viscosity cSt at 100°C	4	4.1	4.2	5.3	4.7	24
Flash Point (Open) °C	205	205	205	210	210	250
Pour Point °C	-15	-15	-15	-15	-15	-15

Health and Safety

Reference should be made to the relevant Q8 Material Safety Data Sheet before use.

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technical data

