

TECHNICAL DATA SHEET

QH HOUGHTOQUENCH™ 3640

Formerly HOUGHTO-QUENCH 170

HIGH PERFORMANCE LOW VISCOSITY HIGHLY ACCELERATED COLD QUENCHING OIL – (ISO 6743-14) UHB

QH HOUGHTOQUENCH™ 3640 is a highly accelerated low viscosity quenching oil suitable for use at temperatures of up to 100°C.

It is based upon specially selected solvent refined base oil to minimise oxidation and ensure consistent performance under the most arduous of operating conditions. A carefully formulated additive package is incorporated into QH HOUGHTOQUENCH™ 3640 to reduce the duration of the vapour blanket cooling stage and provide highly accelerated quenching characteristics, together with excellent oxidation resistance and thermal stability.

Applications

The highly accelerated speed provided by QH HOUGHTOQUENCH™ 3640 enables the development of optimum strength and hardness with minimum distortion in lower hardenability and low alloy steels, heavy sectioned components or steels of borderline hardenability. QH HOUGHTOQUENCH™ 3640 is suitable for use in all types of quenching installation including open quench tanks, sealed quench furnaces and continuous furnaces of the shaker hearth, cast link and mesh belt type.

Recommendation For Use

Use as supplied - neat quenching oil application

Benefits

- **Economic**
 - Lifetime improved provided by good oxidation resistance and thermal stability
 - Consistent performance under the most arduous of operating conditions
 - Uniform quenching characteristics maintained over a range of operating temperatures
 - Low viscosity which reduce significantly the consumption
- **Operator friendly**
 - Base oil highly refined

Health, Safety And Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

Typical Physical Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance	Dark brown oil	visual
Specific Gravity @ 15.5°C	0,86	
Kinematic Viscosity @ 40°C	14	ASTM D445, mm ² /s
Kinematic Viscosity @ 100°C	3,3	ASTM D445 mm ² /s
Flash Point COC in°C	180	ASTM D92
Maximum Cooling rate in °C/s @ 40°C	100-105	ISO 9950

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