

Houghto-Quench S/5

Medium speed quenching synthetic fluid

DESCRIPTION

Houghto-Quench S/5 is based on a synthetic fluid, it contains particularly antioxidant additive to minimize oxidation and ensure consistent performance in service.

APPLICATION

The medium speed provided by Houghto-Quench S/5 enables the development of improved strength and hardness with minimum distortion in construction steel and tool steel.

Excellent results on the quenching of fasteners.

Houghto-Quench S/5 is suitable for use in all types of quenching installation including open quench tanks, sealed quench furnaces and continuous furnaces. Houghto -Quench S/5 is formulated to provide uniform moderately accelerated quenching characteristics with maximum economy in use due to its low viscosity.

FEATURE

- ☐ The synthetic base provides a intrinsic quenching speed
- ☐ Low viscosity for maximum economy in use
- ☐ Uniform quenching characteristics maintained over a range of operating temperatures
- ☐ Consistent performance

PHYSICAL PROPERTIES

Test	Typical Value
Appearance	Clear pale oil
Specific Gravity at 15.6°C	0.87
Kinematic Viscosity 40°C	18 cSt
Flash point (open)	180°C

QUENCHING CHARACTERISTICS – see over

The intrinsic characteristic of synthetic base of Houghto-Quench S/5 minimize the slow cooling vapour blanket stage to produce cooling rates between those of normal and accelerated quenching oils.

The quenching speed of Houghto-Quench S/5 is not influenced significantly by the temperature of the oil. This results in consistent performance and uniform mechanical properties in quenched components.

CLEANING

The good thermal stability and the low viscosity of Houghto-Quench S/5 minimizes oil retention on components and reduces drag out losses.

Houghto-Quench S/5 can be removed from components after quenching by using one of the comprehensive range of Houghton cleaners.

STORAGE

Contamination of quenching oils with water from external sources can also 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.

All drums, tanks and containers should be clearly marked with the contents and should be used in delivery rotation. Houghto-Quench S/5 has a recommended shelf life of 12 months

HEALTH AND SAFETY

Necessary information on safety data sheet .

IVF SmartQuench Compare Report

Date of test		Probe Nr.	
Report Nr.		Ref. probe	
Date of test		Product type	HQ S 5
Test site		Medium temp. [C]	40
Operator		Medium conc. [%]	100
Folder		Agitation rate [m/s]	0
Approved		Ref. to standard	
Comment			

— HQ S5

