



Technical Data sheet

ILS Quench Fluid MS

Mineral Oil Based Quenching Fluid

Description

A medium viscosity solvent refined paraffinic quenching oil used in the heat treatment of metal components to improve the hardness of steel.

Typical Applications

ILS Quench Fluid MS is a medium viscosity mineral oil for use when medium severity straight cold quenching is required. It is particularly suited to steels of high carbon content and for the treatment of large masses of steel in circulating or static bath systems.

ILS Quench Fluid MS is a narrow cut quenching oil with low vapour pressure, suitable for use in vacuum heat-treatment operations and for use with salt baths.

Advantages

- Long service life
- Good oxidation resistance
- Suitable for higher carbon steels
- High flash point

Typical Properties

Parameter	Test Method	Units	Typical Results
Colour	ASTM D1500	-	1.5
Appearance		-	C & B
Density @ 15 °C	ASTM D1298	Kg/L	.851
Kinematic Viscosity @ 40°C	ASTM D445	cSt	29.0
Kinematic Viscosity @ 100°C	ASTM D445	cSt	5.3
Viscosity Index	ASTM D2270	-	119
Flash Point, PMCC	ASTM D92	°C	214
Copper Strip Corrosion (3 hrs @ 100°C)	ASTM D130	-	1A
Pour Point	ASTM D97	°C	-6
Total Acid Number	ASTM D94	Mg(KOH)/g	<0.01
Sulphur	IP 336	%w/w	1.1
Aniline Point	ASTM D611	°C	111

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