



Aminol Quench Oil 46

Product Data Sheet

Quench oil

Product description

Aminol Quench Oil 46 is a high-quality quenching fluid designed for the heat treatment of ferrous metals across various quenching processes. Crafted to facilitate deep and uniform hardening, it minimizes distortion and cracking, ensuring a smooth surface finish.

Application

Aminol Quench Oil 46 is recommended for the conventional and fast quenching of ferrous metals, such as carbon steel, gray iron, and alloy steel.

Features & Benefits

- Controlled cooling rate to minimize cracking and distortion
- Achieves a good surface finish
- Demonstrates excellent oxidation resistance and thermal stability
- Low volatility reduces oil loss through vaporization

Typical Properties

Property	Unit	Test method	Typical value
ISO viscosity grade	-	-	46
Density at 15°C	g/cm ³	ASTM D4052	0.876
Kinematic Viscosity at 40°C	cst	ASTM D445	46.00
Kinematic Viscosity at 100°C	mm ² /s	ASTM D445	6.74
Viscosity Index	-	ASTM D2270	98
Flash Point (COC)	°C	ASTM D92	226
Pour Point	°C	ASTM D97	-18

Typical property characteristics are based on current production. Whilst future production will conform to Aminol specifications, variations in these characteristics may occur.

Performance claims

- ISO 6743-14 L-UHA
- ISO 6743-14 L-UHB



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Health, Safety & Environment

Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained. For further guidance on Product Health & Safety, refer to the appropriate Safety Data Sheet, which can be obtained upon request or through our website: www.aminol.az

Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil, or water.

Available pack sizes

- 1 L Canister plastic
- 4 L Canister plastic
- 5 L Canister plastic
- 7 L Canister plastic
- 20 L Canister plastic
- 30 L Canister plastic
- 200 L Drum sheet metal
- 1000 L Container

Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun, or freezing conditions.

Notes

This data sheet and the information it contains are believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application, and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services, and information supplied are provided under our standard conditions of sale. You should consult our sales specialists if you require any further information.