

TECHNICAL PRODUCT SHEET

ALUCUT ISO 32



DESCRIPTION

ALUCUT is a premium, multi-purpose neat cutting oil formulated for high-performance machining. It is based on a highly refined mineral base stock and fortified with an advanced, chlorine-free extreme-pressure additive system using inactive sulfur chemistry. This combination provides strong load-carrying capability, excellent surface finish quality, and reliable protection without the staining issues associated with active sulfur additives.

APPLICATIONS

ALUCUT is suitable for a wide range of metalworking operations, including gear cutting, high-speed hobbing, thread grinding, milling, and honing. Its formulation makes it ideal for machining non-ferrous metals such as copper and bronze, as well as low- to medium-tensile steel applications. This versatility ensures reliable performance, excellent surface finish, and consistent tool protection across diverse machining environments.

SPECIFICATIONS

ISO 6743-7 (ISO-L-MHC)

PROPERTIES

ALUCUT delivers excellent wear protection and strong extreme-pressure performance, ensuring reliable machining under demanding loads. Its exceptional cooling capability helps maintain stable temperatures and smooth operation, while specialized adhesion-enhancing additives improve film strength for consistent lubrication and superior cutting performance.

BENEFITS

ALUCUT helps extend cutting tool life by providing strong, consistent lubrication throughout demanding operations. It enables high cutting speeds and delivers excellent surface finishing even under high-pressure conditions. Its effective cooling capability ensures smooth system operation, while its stable lubricating film offers reliable protection during interrupted cuts or when replacing the cutting tool.



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PHYSICAL-CHEMICAL CHARACTERISTICS

ALUCUT	METHOD	ISO 32
Density at 15°C, g/cm ³	ASTM D4052	0.859
Viscosity, Kinematic (cSt) 40°C	ASTM D445	32
Viscosity, Kinematic (cSt) 100°C	ASTM D445	5.4
Foam test	ASTM D892	20/0/0
Flash point, COC, °C	ASTM D92	200
Copper corrosion	ASTM D130	1b
Pour Point, °C	ASTM D 97	-21
Rust test	ASTM D665	Pass
Color	ASTM D1500	Dark Brown

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

