

TECHNICAL PRODUCT SHEET

CASTING OIL



DESCRIPTION

CASTING OIL is a specially developed lubricant designed for severe, continuous (strand) industrial casting operations. It is formulated from a blend of very high-quality base stocks and specialized additives that provide the necessary lubricity to prevent adhesion of molten material to the mold. The product offers excellent oxidative stability, a high flash point, and a high viscosity index, ensuring reliable performance under extreme temperatures. It is also free of aromatic compounds, contributing to cleaner and safer working conditions.

APPLICATIONS

CASTING OIL is designed for use in the metal processing industry as a high-quality lubricant that forms a durable protective film between the mold surface and the casting material, ensuring easy and clean detachment. The product requires no special application procedures and can be applied directly using standard systems. Its low pour point prevents blockage of spraying jets or injectors, while its formulation promotes the formation of a uniform, stable oil film for consistent casting performance.

PROPERTIES

CASTING OIL combines a high flash point and high viscosity index with a low pour point, ensuring reliable performance across a wide temperature range. Its excellent oxidative stability further enhances durability, making it suitable for demanding casting and high-temperature industrial applications.

BENEFITS

CASTING OIL produces less burn-off and smoke, extending oil service life and improving working conditions. Its strong and stable oil film reduces overall consumption while ensuring effective mold lubrication. The formulation allows easier application and handling and helps prevent the formation of hard deposits on the mold surface, contributing to cleaner operation and consistent casting quality.



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PHYSICAL-CHEMICAL CHARACTERISTICS

CASTING OIL	METHOD	
Appearance	Visual	Clear/Brown
Density at 15°C, g/cm ³	ASTM D4052	0.889
Viscosity, Kinematic (cSt) 40°C	ASTM D445	46
Viscosity, Kinematic (cSt) 100°C	ASTM D445	7.9
Viscosity index	ASTM D2270	143
TAN, mgKOH/g	ASTM D 974	0.01
Flash point, COC, °C	ASTM D92	254
Pour point, °C	ASTM D97	-12
Water content, ppm	ASTM D1533B	50
Saponification number, mgKOH/g	ASTM D 94	90
Ash, %wt.	ASTM D482	NIL
Color	ASTM D1500	1.0

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.

