

Cylinder Super S4

High-Performance Cylinder Lubricant for Two-Stroke Low-Speed Marine Diesel Engines

Description

MAXFLUID Cylinder Super S4 is a premium universal cylinder lubricant developed by MAXFLUID for modern low-speed two-stroke crosshead marine diesel engines operating on IMO 2020 compliant fuels, including Very Low Sulphur Fuel Oil (VLSFO), Ultra Low Sulphur Fuel Oil (ULSFO), Marine Gas Oil (MGO), Marine Diesel Oil (MDO), and fuels containing up to 1.5% sulphur.

Formulated with highly refined mineral base oils and an advanced balanced additive system, Cylinder Super S4 delivers exceptional acid neutralization, piston cleanliness, wear protection, and deposit control across a wide range of operating conditions. Its universal formulation simplifies onboard lubricant management by reducing the need for multiple cylinder oil grades while ensuring reliable protection for both conventional and dual-fuel two-stroke engines.

Performance Features & Benefits

Universal Fuel Compatibility

Engineered for use with low-sulphur and IMO 2020 compliant marine fuels, providing dependable lubrication across a broad range of fuel sulphur levels.

Excellent Acid Neutralization

The balanced alkaline reserve rapidly neutralizes combustion acids, helping protect cylinder liners and piston rings against corrosive wear while maintaining optimum engine condition.

Outstanding Engine Cleanliness

Advanced detergent technology minimizes deposits on pistons, ring grooves, cylinder liners, cylinder ports, and under-piston areas, promoting cleaner operation and improved engine efficiency.

Superior Wear Protection

Provides a strong lubricating film that minimizes liner wear, piston ring wear, scuffing, and polishing, helping extend component life under demanding operating conditions.

Simplified Lubrication Management

Designed as a single-cylinder oil solution for multiple fuel types, helping reduce onboard lubricant inventory, simplify product selection, and improve operational efficiency.

Seal Compatibility

Compatible with conventional seal materials commonly used in marine cylinder lubrication systems.

Applications

MAXFLUID Cylinder Super S4 is recommended for:

- Low-speed two-stroke crosshead marine diesel engines
- Engines operating on IMO 2020 compliant fuels
- Very Low Sulphur Fuel Oil (VLSFO)
- Ultra Low Sulphur Fuel Oil (ULSFO)
- Marine Gas Oil (MGO)
- Marine Diesel Oil (MDO)
- Fuels containing up to 1.5% sulphur
- Dual-fuel two-stroke marine engines
- Ocean-going vessels requiring a universal cylinder lubricant

Always follow the engine manufacturer's recommendations regarding lubricant selection and cylinder oil feed rates.

Product Advantages

- Universal cylinder lubricant for multiple fuel types
- Suitable for IMO 2020 and ECA-compliant operations
- Excellent acid neutralization performance
- Outstanding piston cleanliness and deposit control
- Superior protection against corrosive wear and scuffing
- Excellent thermal and oxidation stability
- Reduced onboard lubricant inventory requirements
- Suitable for conventional and dual-fuel engines
- Helps optimize maintenance intervals and engine reliability

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTIES	UNIT	METHOD	Cylinder Super S4
SAE Viscosity Grade	-	-	50
Viscosity Index	minimum	ASTM D2270	98
Kinematic Viscosity @ 100°C	mm ² /s	ASTM D445	19
Density @ 15°C	kg/m ³	ISO 3675	930
Flash Point	°C	ASTM D93	230
Pour Point	°C	ISO 3016	-9
TBN	mg/KOH/g	ISO 3771	60

The values shown are typical characteristics and may vary within normal manufacturing tolerances.

Health and Safety

MAXFLUID Cylinder Super S4 is a premium marine cylinder lubricant intended for low-speed two-stroke marine diesel engines. Under normal operating conditions and when handled in accordance with recommended practices, the product is not expected to present significant health or safety hazards.

Avoid prolonged or repeated skin contact and prevent contact with eyes. Wear appropriate personal protective equipment (PPE), including protective gloves and safety glasses, when handling the product. Ensure adequate ventilation in enclosed spaces and avoid inhalation of oil mists.

Store in tightly sealed containers in a cool, dry, and well-ventilated area away from direct sunlight, excessive heat, and incompatible materials. Prevent spills from entering drains, waterways, or soil.

For detailed information regarding safe handling, storage, transportation, and disposal, please refer to the latest Safety Data Sheet (SDS) for MAXFLUID Cylinder Super S4.