

HYDRO S

General-Purpose R&O Type Hydraulic Fluids

HYDRO S is an R&O (Rust & Oxidation) type hydraulic fluid formulated with refined mineral oil, enhanced with a rust inhibitor and an antioxidant. It is ideal for hydraulic systems operating under low pressure (discharge pressure up to 13.7 MPa or 140 kgf/cm²) with minimal load, where wear resistance is not a critical requirement. This product meets the specifications of ISO 6743 Class L, Part 4 (Family H) HL for mineral-based R&O type hydraulic oils.

● SPECIAL FEATURES

1. It is most suitable for low-pressure hydraulic systems, compressors, and industrial machinery.
2. It demonstrates superior thermal and oxidation stability over extended periods of use in low-pressure applications.
3. The combination of highly refined base oil and carefully selected additives provides exceptional heat resistance and sludge prevention capabilities.
4. This R&O type hydraulic fluid has a proven track record of reliable performance.

● APPLICATIONS

Suitable for general hydraulic systems where anti-wear properties are not essential in applications such as ships, metalworking equipment, and machine tools.

● CONTAINERS

200-liter drum

● TYPICAL PROPERTIES OF HYDRO S

ISO Viscosity Grade		32	46	56*	68
Color (ASTM)		L0.5	L0.5	L0.5	L0.5
Density (15°C)	g/cm ³	0.872	0.876	0.879	0.881
Kinematic viscosity (40°C)	mm ² /s	32.8	46.4	56.5	67.0
Kinematic viscosity (100°C)	mm ² /s	5.51	6.89	7.80	8.69
Viscosity index		104	104	102	101
Flash point (COC)	°C	234	242	250	256
Pour point	°C	-22.5	-20.0	-20.0	-20.0
Acid number	mgKOH/g	0.07	0.06	0.06	0.06
Copper strip corrosion (100°C, 3h)		1	1	1	1
Rust prevention (distilled water, 60°C, 24 h)		No rust	No rust	No rust	No rust

*: 56 is a special viscosity grade, not a standard ISO viscosity grade.

Note: The typical properties may be changed without notice. (May 2024)



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil(s), Additives
Hazard pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Harmful to aquatic life Harmful to aquatic life with long lasting effects
Precautionary Statements: Prevention	<ul style="list-style-type: none">• Do not handle until all safety precautions have been read and understood.• Wear protective gloves/protective clothing/eye protection/face protection.• Do not allow the eyes to become exposed to the product. Do not swallow the product.• Avoid release to the environment.• Wash hands thoroughly after handling.• Do not eat, drink or smoke when using this product.
Response	<ul style="list-style-type: none">• IF SWALLOWED: Immediately call a POISON CENTER/doctor.• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.• IF ON SKIN: Wash with plenty of soap and water.
Storage	<ul style="list-style-type: none">• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.• Containers that have been opened must be tightly sealed.
Disposal	<ul style="list-style-type: none">• Dispose of contents/container in accordance with local/regional/national/international regulations.• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.