

# HYDRO S

## R&O type hydraulic fluids for general purpose

**HYDRO S** is a R&O type hydraulic fluid blended with refined mineral oil and a rust inhibitor (R: Rust inhibitor) and an antioxidant (O: Oxidation inhibitor). **HYDRO S** is suitable for hydraulic equipment that has low load at low pressure (discharge pressure: 13.7 MPa = 140 kgf / cm<sup>2</sup> or less), especially where anti-wear performance is not required. It corresponds to ISO 6743 Class L Part 4.

### ● SPECIAL FEATURES

1. It is ideal for low pressure hydraulic equipment, compressors, industrial machinery.
2. It shows excellent thermal and oxidative stability even under long-term use in low pressure equipment.
3. It has excellent thermal stability and sludge control function thanks to formulation with highly refined base oil and carefully selected additives.
4. It is a R & O type hydraulic fluid with many experience of use.

### ● APPLICATIONS

For general hydraulic devices such as ships, metal processing equipment, machine tools and etc. which anti-wear performance is not required

### ● CONTAINERS

200-liter drums

### ● TYPICAL PROPERTIES OF HYDRO S

ISO Viscosity Grade		32	46	56*	68
Color(ASTM)		L0.5	L0.5	L1.0	L1.0
Density(15 °C)	g/cm <sup>3</sup>	0.867	0.873	0.876	0.879
Viscosity (40 °C)	mm <sup>2</sup> /s	32.0	46.0	55.6	65.0
(100 °C)	mm <sup>2</sup> /s	5.50	6.92	7.77	8.59
Viscosity Index		108	106	104	103
Acid Number	mgKOH/g	0.05	0.05	0.05	0.05
Flash Point (COC)	°C	228	240	245	250
Pour Point	°C	-20	-17.5	-15	-15
Rust Test (sea water, 60°C,24h)		pass	pass	pass	pass
Copper Corrosion (100 °C,3h)		1	1	1	1

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

Note: The typical properties may be changed without notice. (June 2011)



## Handling Precautions

▼ Follow these precautions when handling this product.

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