

SUPER HYRANDO WP

Anti-Wear Long-Life Hydraulic Fluid

SUPER HYRANDO WP is hydraulic fluid with exceptional anti-wear and long-life properties. It is suitable for high-pressure hydraulic systems in construction machinery, forging presses and other large industrial machinery.

SUPER HYRANDO WP is available in three viscosity grades: 32, 46 and 68. **SUPER HYRANDO WP 46** and **WP 68** have flash points above 250 °C, guaranteed.

● **Special Features**

1. Outstanding anti-wear properties

SUPER HYRANDO WP is formulated with zinc-free extreme pressure additives with exceptional anti-wear properties, to protect against wear problems in high-pressure hydraulic pumps.

2. High oxidation stability and thermal stability

Formulated with highly refined base stock and high performance antioxidants, **SUPER HYRANDO WP** stands up to high temperatures with minimal sludge formation. This helps to prevent problems of valve malfunction and filter clogging.

3. Excellent anti-stick-slip properties

SUPER HYRANDO WP contains an anti-stick-slip additive to reduce noise from hydraulic cylinders.

4. Superior brake torque performance

SUPER HYRANDO WP outperforms conventional zinc-free type hydraulic fluids in braking torque to help prevent problems with hydraulic brakes.

5. Viscosity grades 46 and 68 are “Combustible Liquids”

SUPER HYRANDO WP 46 and **WP 68** have guaranteed flash points above 250 °C and are classified as Combustible Liquids, which are not subject to the hazardous materials regulations under Japan’s Fire Service Law.

● **Handling Requirements for Combustible Liquids under Japan’s Fire Service Law:**

1. Under the Fire Service Law, when combustible liquids are stored together with hazardous materials, they must be kept at least one meter apart.
2. In quantities of 2 KL and above, combustible liquids are considered “Designated Combustible Goods” and are subject to municipal regulations (in Japan); be sure to familiarize yourself with rules and regulations in your area.

● **Applications**

Hydraulic systems in construction machinery, forging presses & other large industrial machinery and industrial vehicles.

● **Containers**

Tank truck, 200 liter drum and 20 liter pail

● **Typical properties of SUPER HYRANDO WP**

Grade		32	46	68
Color	(ASTM)	L0.5	L0.5	L0.5
Density	(15°C)	0.842	0.854	0.867
Kinematic viscosity	(40°C) mm ² /s	31.1	45.1	65.6
	(100°C) mm ² /s	5.98	7.58	9.18
Viscosity index		141	135	117
Flash point	(COC) °C	240	258	262
Acid number	mgKOH/g	0.03	0.03	0.07
Pour point	°C	-42.5	-40.0	-32.5
Rust prevention (distilled water, 60°C, 24h)		No rust	No rust	No rust
Copper strip corrosion (100°C, 3h)		1	1	1
FZG test	(Fail Stage)	12	12	12

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:	<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.