

IND-4020-2007E



TEL: +81-3-6260-2012

ENEOS Corporation

1-8-15, Konan, Minato-ku, Tokyo 108-8005 JAPAN

Anti-Wear Long-Life Hydraulic Fluid

SUPER HYRANDO WP (<u>World Product</u>) is hydraulic fluid designed for the rigors of construction machinery applications. **SUPER HYRANDO WP** has exceptional anti-wear and long-life properties. It is also suitable for high-pressure hydraulic systems in forging presses and other large industrial machinery.

SUPER HYRANDO WP is available in three viscosity grades: 32, 46 and 68. VG46 and VG68 have flash points above 250 °C, guaranteed.

Special Features

1. Outstanding anti-wear protection

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 prevent problems of malfunctioning valves and blocked filters.

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 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** are classified as Combustible Liquids under Japan's Fire Service Law, and have flash points above 250 °C, guaranteed.

• 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 Hazardous Materials" 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.



Tank trucks, 200 liter drums & 20 liter pails.

Grade VG32 VG46 VG68 Density (15 °C) 0.846 0.854 0.870 (40 °C) Kinematic viscosity mm²/s 34.7 45.7 67.5 (100 °C) mm^2/s 7.51 9.09 6.36 Viscosity index 130 110 136 (COC) °C Flash point 246 260 266 Acid number mgKOH/g 0.07 0.07 0.07 °C -35.0 -25.0 Pour point -42.5 Rust prevention (Artificial seawater, 24h) No rust No rust No rust Copper strip corrosion(100 °C, 3h) 1 1 1

• Typical properties of SUPER HYRANDO WP

(Fail Stage)

12 Note: The typical properties may be changed without notice. (July 2008)

12

12



Handling **Precautions**

FZG test

▼ Follow these precautions when handling this product.

Composition :	Base Oil, Additives
Precautionary pictograms:	
Signal word:	Not applicable
Hazard Statement:	Not applicable
Precautionary Statements:	• Do not handle until all safety precautions have been read and understood.
Prevention	• 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.
	• Wash hands thoroughly after handling.
	• Do not eat, drink or smoke when using this product.
Response	• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
	• 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	• 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	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.