

IND-4031-2104E

SUPER HYRANDO P46

High performance anti-wear hydraulic fluid

SUPER HYRANDO P46 which has flash points above 250 °C is an anti-wear hydraulic fluid suitable for various hydraulic pumps and motors from low pressure to high pressure. When used in a high-pressure pump, **SUPER HYRANDO P46** not only provides excellent wear-prevention but also anti-seizure protection during shock loading. **SUPER HYRANDO P46** has excellent thermal stability and oxidative stability because it uses additives that exhibit sufficient performance even under high temperature conditions.

● SPECIAL FEATURES

1. Guaranteed Flash Points above 250 °C

SUPER HYRANDO P46 has guaranteed flash points above 250 °C.

2. Excellent Wear Protection

SUPER HYRANDO P46 has superior anti-wear characteristics to prevent wear on modern high-pressure, high-performance pumps and valves. It also greatly reduces the amount of wear and scuffing in heavily loaded hydraulic system components.

3. Excellent Temperature Characteristics

SUPER HYRANDO P46 has a high viscosity index and low pour point so that temperature-related viscosity change is low.

It exhibits stable performance over a wide temperature range from low temperature to high temperature.

4. Superior Rust Protection

SUPER HYRANDO P46 prevents rust from being caused by moisture mixed in the hydraulic system because it contains an excellent rust preventive additive.

5. Superior Oxidation and Thermal Stability

SUPER HYRANDO P46 is protected against oxidation and thermal degradation even in hydraulic systems with severe operating conditions.

6. Long Service Life

SUPER HYRANDO P46 has superior shearing stability so that there is almost no change in viscosity even during extended periods of use.

● Handling requirements for liquids (flash point:250°C min.) under Japan's Fire Service Law

1. Under the Fire Service Law, when liquids (flash point:250°C min.) are stored together with hazardous materials, they must be kept at least one meter apart.
2. In quantities of 2 kL and above, liquids (flash point:250°C min.) 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

SUPER HYRANDO P46 can be used in a wide range of low- to high-pressure hydraulic machineries including forging presses, metal-working machines, injection molding machines, extruders, machine tools, construction machinery, marine deck equipment, cargo handling machinery, mining machinery and many others.

● SHIPPING CONTAINERS

200-liter drums and 20-liter cans

● **TYPICAL PROPERTIES OF SUPER HYRANDO P46**

ISO Viscosity grade			46
Color	(ASTM)		L0.5
Density	(15 °C)	g/cm ³	0.847
Kinematic viscosity	(40 °C)	mm ² /s	46.0
	(100 °C)	mm ² /s	7.66
Viscosity index			132
Flash point	(COC)	°C	262
Pour point		°C	-37.5
Acid number		mgKOH/g	0.49
Copper strip corrosion (100 °C ,3h)			1
Rust test (artificial sea water, 24 h)			No rust

Note: The typical properties may be changed without notice. (August 2020)



**Handling
Precautions**

▼ Follow these precautions when handling this product.

Composition :	Base Oil, Additives
Precautionary pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Not applicable
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. • 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 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	<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.