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Technical Data Sheet

ORN SYN HYDRAULIC ISO 5
PN HYD005

Mineral hydraulic oil for high-performance hydraulic systems

Product Type	ISO Grade	Document Type	Application
Mineral hydraulic oil	ISO 5	TDS	Industrial lubrication

Product Description

ORN SYN Hydraulic ISO 5 is a mineral-based hydraulic oil formulated to meet the performance requirements of a wide range of hydraulic equipment. The formulation contains anti-wear, antioxidant, anti-corrosion, and anti-foam additives to support reliable operation and equipment protection under demanding service conditions.

Applications

- Hydraulic systems operating under high pressures, elevated temperatures, or variable speeds.
- Suitable for hydraulic equipment such as Vickers, Gerotor, Gresen, HPM, Denison, Cessna, Hydreco, and Worthington systems.
- May also be used for workshop equipment, reduction gears, bearings, compressed air systems, and rotary screw air compressors where this viscosity grade is specified.

Key Features

- Anti-wear and oxidation stability: helps protect components and oil condition.
- Anti-foam properties: supports consistent hydraulic response and efficient operation.
- Temperature stability: maintains appropriate viscosity characteristics across normal operating conditions.

Environmental Benefits

- Long service life can help reduce lubricant consumption and waste generation.
- Oxidation-resistant formulation supports extended oil life under normal operating conditions.
- Effective anti-wear protection may help extend equipment component life, reducing maintenance-related waste.
- Stable performance may contribute to efficient hydraulic system operation.
- Suitable for collection through standard used-oil recovery or recycling routes where local regulations permit.
- Foam control characteristics can help minimise fluid losses from aeration and overflow.

Environmental Note

Used oil should be collected, stored, and disposed of in accordance with local environmental regulations. Prevent release into soil, drains, waterways, and groundwater.

Performance Profile

Specifications

- AFNOR NF E 48-603 HM
- DIN 51524 Part 2
- DENISON HF-2
- AFNOR NF E 48-690
- ISO 11158 HM
- EATON VICKERS I-286-S
- AFNOR NF E 48-691
- ISO 6743-4 HM
- EATON VICKERS M-2950-S

Typical Properties

Property	Method	Unit	Typical Value
Density at 15°C	ASTM D4052	g/ml	0.823
Kinematic Viscosity at 40°C	ASTM D445	mm^2/s	4.8
Kinematic Viscosity at 100°C	ASTM D445	mm^2/s	1.8
Viscosity Index	ASTM D2270	-	100
Pour Point	ASTM D6892	°C	-21
Flash Point COC	ASTM D92	°C	120

Typical Values
Typical characteristics are average results and should not be treated as fixed sales specifications.

Safety Precautions

Important

Read the latest Safety Data Sheet before use. The information below is general guidance for safe handling of lubricant products and does not replace the SDS.

Handling

- Avoid prolonged or repeated skin contact.
- Avoid contact with eyes.
- Do not ingest.
- Wash hands thoroughly after handling.

Personal Protective Equipment

- Wear suitable protective gloves when handling lubricant products.
- Use safety glasses or goggles where splashing may occur.
- Wear appropriate work clothing to minimise skin exposure.

Storage

- Store in original, tightly closed containers.
- Keep in a cool, dry, and well-ventilated area.
- Protect from direct sunlight, excessive heat, and sources of ignition.
- Prevent contamination by water, dust, or foreign materials.

Spill Response

- Contain spills immediately to prevent environmental contamination.
- Absorb spilled product using suitable inert absorbent material.
- Dispose of recovered material in accordance with local regulations.
- Clean affected surfaces thoroughly because spilled oil can create slip hazards.

First Aid Measures

- Skin contact: wash with soap and water.
- Eye contact: rinse with clean water for several minutes and seek medical attention if irritation persists.
- Inhalation: move to fresh air if exposed to oil mist.
- Ingestion: do not induce vomiting. Seek medical advice promptly.

Disclaimer

The information contained in this Technical Data Sheet is based on current product knowledge and typical production values. Product characteristics may be updated as part of ongoing product development and technical improvement programmes. Users are responsible for confirming suitability for the intended application and for using and disposing of the product in compliance with applicable regulations.