

# HIDRAULIK SYN FP

## Phosphate Ester Fire Resistant Hydraulic Fluid

HIDRAULIK SYN FP is the most popular ester fluid and is widely used in many industrial hydraulic applications, e.g. die-casting machines, steel mills, forging shops, foundries etc.

HIDRAULIK SYN FP does not contain any chlorinated compounds. This minimizes problems of odor, toxicity and packing deterioration.

HIDRAULIK SYN FP offers good fire-resistance plus the excellent lubricity necessary for heavily loaded bearings. Its lubricating ability equals that of normal petroleum oils.

### Applications

HIDRAULIK SYN FP is stable up to operation temperatures of about 80°C (175°F). The regular operating temperature should be above 45°C (115°F).

In case of low environmental temperatures, HIDRAULIK SYN FP maybe pre-heated (not more than 1 W/cm<sup>2</sup> heat-flow) to avoid starting problems of the hydraulic due to too high viscosity.

HIDRAULIK SYN FP is stable in long-time storage; if frozen, it can be thawed and used without harm. If petroleum oil contamination is more than 3-5%, this will reduce the fire-resistance significantly.

### Product Typicals

Characteristics	Value
Colour	Green
Specific Gravity, g/ml	1.14
Viscosity, cSt	4.9 – 5.4
@ 20°C	176
@ 40°C	46
@ 80°C	8
Pour Point, °C	-20
Neutralization No., mgKOH/g	< 0.2

### Customer Benefits

- Stable up to operation temperatures of about 80°C (175°F).
- Stable in long-time storage
- has no effect on metals if the fluid is kept in good condition

### Compatibility

HIDRAULIK SYN FP has no effect on metals if the fluid is kept in good condition, that means the neutralization number may not exceed the limit of 1,0 mg KO H/g HIDRAULIK SYN FP . It is compatible with Viton and butyl rubber seals but not neoprene or "Buna N" (NBR) seals.

### Packaging

- 18 Liters pail, 209 Liters Drum.

### Customer Advice

For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional technical services engineer or contact HO technical engineers.