

# INGEN HYDRAULIC HLP FLUIDS

## 10,15,22,32,46,68,100,150



Ingen Hydraulic HLP fluids are premium quality, shear stable, multi-viscosity, anti-wear hydraulic fluids, designed for use in hydraulic systems subjected to wide variations in ambient and operating temperatures.

### APPLICATIONS:

- Industrial hydraulic equipment subject to wide variation in temperatures.
- Hydraulics of mobile, construction and agricultural equipment.
- Hydraulic systems with vane, gear or piston pumps.
- Fork-lift trucks (in refrigerated areas).
- Plastic injection molding machines.
- Marine deck equipment, steering gear, bow thrusters and automatic controls.
- Numerically controlled (NC) machine tools.
- Enclosed gear systems.

### PERFORMANCE STANDARD:

INGEN HYDRAULIC HLP fluids meet and exceed International Standards.

TECHNICAL DATA								
	10	15	22	32	46	68	100	150
Sp. Gravity @ 20°C Kg/L	0,845	0,854	0,861	0,858	0,866	0,874	0,884	0,889
Kinematic Viscosity @ 40°C cSt	9,8	14,9	21,8	31,5	45,5	68,8	104	155
Kinematic Viscosity @100°C cSt	2,7	3,4	4,3	5,5	7,1	8,7	11,3	14,6
Viscosity Index	115	100	107	111	115	98	95	92
Flash Point°C	180	187	203	212	217	224	238	245
Pour Point°C	-39	-39	-36	-33	-30	-27	-24	-21
Sulphates Gew%	0,19	0,15	0,15	0,15	0,15	0,15	0,15	0,15
T.A.N. mgKOH/g	1,1	0,9	0,9	0,9	0,9	0,9	0,9	0,9

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### BENEFITS

- **Reduced downtime:** The rust and oxidation inhibitor system prevents the production of abrasive particles from rust formation, and deposits, varnishes and sludges from oil breakdown, which can damage equipment surfaces and seals, and block filters prematurely.
- **Trouble-free operation:** Good hydraulic stability and water separation characteristics provide excellent filterability in the presence of water contamination. Good anti-foam and air release properties ensure smooth operation and system efficiency.
- **Extended oil service life:** High oxidation stability resists oil thickening and deposit formation in service, eliminating the need for unscheduled change of hydraulic fluid.
- **Wide temperature application:** Shear stable, multi-viscosity characteristics reduce the risk of breakdown in high pressure/ high load hydraulic systems which operate over a wide temperature range.
- **Longer equipment life:** The special anti-wear additive package reduces wear by protecting surfaces when load causes breakdown of the lubricant film.

**Health and Safety:** Based on available information, this product is not expected to produce adverse effects on health when used for the intended application, following the recommendations provided in the Material Safety Data Sheet (MSDS). MSDSs are available upon request. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly.

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