

SenSyn 700 Series

(732 - 746 - 768 - 786)

SYNTHETIC HYDRAULIC FLUIDS
(GROUP IV)

DESCRIPTION:

The **SenSyn 700 Series** are fire resistant, antiwear, synthetic hydraulic fluids based on advanced PAO and Ester technology. Designed for use in hydraulic systems operating over a wide temperature range where petroleum based fluid may not provide adequate high/low temperature performance and where a greater degree of fire safety is required.

APPLICATION:

Developed specifically for use with gear, piston or vane pumps operating over a wide range of pressures and temperatures. Meets Vickers 104C vane pump performance requirements.

BENEFITS:

IMPROVED PERFORMANCE:

Designed to operate over a wide range of temperatures and pressures with less change in viscosity than comparable petroleum based fluids. This results in:

- Reduced energy consumption
- Extended pump life
- Improved overall performance.

INCREASED SAFETY:

Low vapor pressure:

- Decreases vapor loss.
- Reduces deposits.
- Dramatically lowers fire hazard.

Excellent seal, jacket and hose compatibility reducing the risk of leaks.



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REDUCED MAINTENANCE COSTS:

- Antiwear additives minimizing pump wear.
- Corrosion inhibitors and excellent demulsibility result in long component life.
- Reduced maintenance costs as a result of exceptional oxidation stability affording fluid life up to eight times that of petroleum oils.

SPECIFICATIONS:

	<u>732</u>	<u>746</u>	<u>768</u>	<u>786</u>
ISO GRADE	<u>32</u>	<u>46</u>	<u>68</u>	<u>100</u>
Viscosity Index	175	177	176	163
Kinematic Viscosity, cSt				
@ 40°C	32	46.1	67.8	97.8
@ 100°C	7.4	8.9	11.5	14.9
Specific Gravity	.829	.830	.838	.846
Density, lb/gal @ 15.6°C	6.93	6.94	6.95	7.03
Flash Point, COC, °C	234	254	260	260
Fire Point, COC, °C	266	292	296	300
Pour Point, °C	<-54	<-54	<-54	<-54
Rust Test (ASTM D-665)				
- Procedure A	Pass	Pass	Pass	Pass
- Procedure B	Pass	Pass	Pass	Pass
Foaming Test (ASTM D-892)				
- Sequence 1	Trace	Trace	Trace	Trace
- Sequence 2	Trace	Trace	Trace	Trace
- Sequence 3	Trace	Trace	Trace	Trace
Specific Heat, ASTM D-2766,				
cP, CAL/g				
37.8°C (100°F)	0.52	0.53	0.54	0.54
93.0°C (200°F)	0.57	0.57	0.58	0.58

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Thermal Conductivity, Heat Probe Method				
BTU/H - FT - (°F/FT)				
37.8°C (100°F)	0.089	0.090	0.091	0.091
93.0°C (200°F)	0.087	0.088	0.089	0.089
Air Release, DIN 51381, 50°C	1	1	1	1
FZG Gear Test, DIN 51354	11	12	12	12
PNEUROP Oxidation, DIN 51352	0.1	0.1	0.2	0.2
Vapour Pressure,				
Isoteniscope, mm Hg				
@ 300°F	0.7	0.0	0.0	0.0
@ 400°F	3.8	0.0	0.0	0.0
@ 450°F	7.2	3.5	0.5	<0.5
Emulsion, ASTM D-1401,				
vol. @ 180°F (sec.)	40-40-0(8)	40-40-0(8)	40-40-0(8)	40-40-0(8)