Petrochem
Safe Reliable Machinery Lubricants

TECHNICAL DATA

Rev.5/24

HYDSYN AW SERIES

INDUSTRIAL SYNTHETIC AW HYDRAULIC LUBRICANTS

HYDSYN AW SERIES gear lubricants are fully synthetic and have been formulated from premium polyalphaolefins (PAO) base fluids for enclosed gear systems requiring ashless antioxidants and anti-wear. These oils have been designed to provide proper lubrication under hydrodynamic and mild boundary lubrication conditions. They are recommended for gear systems and bearings where moderate loads, high temperatures and humidity are expected, including worm gears containing soft metal such as bronze, brass and copper.

PRODUCT APPLICATIONS:

- The **HYDSYN AW SERIES** lubricants are multipurpose lubricants that cab we used for a wide variety of industrial applications.
- They are similar to petroleum oils in their compatibility to seals, hoses, gaskets and paint.

Enclosed Gear Units: Spur, Helical, Bevel & Worm Gears	*Circulating and Splash Lubricated Systems*	*Mist Systems*
Plain and Roller Contact Bearings	*Centrifugal Compressors*	*Vacuum Pumps*
Rotary Screw Compressors	*Rotary Vane Compressors*	*Proofer Ovens*
Reciprocating Compressors	*Pulp & Paper Machines*	*Oven Chains*

PRODUCT FEATURES:

- 100% Fully Synthetic
- Wide Temperature Ranges
- Excellent Thermal & Oxidative Stability
- Low Pour Points
- High Flash Points
- Premium anti-wear properties provide extended equipment life

PRODUCT PHYSICAL PROPERTIES:

TYPICAL PROPERTIES	TEST METHOD	HYDSYN 22AW	HYDSYN 32AW	HYDSYN 46AW	HYDSYN 68AW	HYDSYN 100AW
ISO Grade	ASTM D2422	22	32	46	68	100
Viscosity @ 40°C,cSt	ASTM D445	22	31.1	47.3	68.6	95.2
Viscosity @ 100°C,cSt	ASTM D445	4.6	5.75	7.86	10.1	12.85
Viscosity Index	ASTM D2270	124	127	136	132	133
Flash Point, °C/°F	ASTM D92	204/400	240/464	240/464	238/460	260/500
Pour Point, °C/°F	ASTM D97	-51/-60	-48/-54	-48/-54	-48/-54	-45/-49
Copper Corrosion	ASTM D130	1B	1B	1B	1B	1B
Rust Prevention	ASTM D665	Pass	Pass	Pass	Pass	Pass
Evaporation, %	ASTM D972	<1%	<1%	<1%	<1%	<1%
Specific Gravity	ASTM D1298	0.86	0.86	0.86	0.87	0.87

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