

### VACUUM PUMP LUBRICANT SERIES

#### VP 22 & VP 32

VP 22 & VP 32 oils are designed for use in liquid ring vacuum pumps. They are based on severely hydro-treated paraffinic oils with a superior additive package that includes antioxidants, anti-wear additives, corrosion protection and pour point depressants. They are compatible with petroleum oils and PAO's.

#### VP 100 & VP 150

VP 100 & VP 150 are highly refined, premium detergent free oils designed for vacuum pump use. These oils are characterized by outstanding lubricating performance where oxidation, rust and high bearing and gear loading are not problems. They have excellent oxidation resistance and water separation.

#### VPFG 100

VPFG 100 is a synthetic food grade oil. A polyalphaolefin (PAO) custom blend fluid for improved lubrication at high and low temperatures. This oil provides reduced volatility and is compatible with mineral oils.

#### VPSH 46 & VPSH 100

VPSH 46 & VPSH 100 are synthetic PAO fluids which offer excellent protection against wear, rust and corrosion. They are non-foaming and have excellent water resistance eliminating formation of emulsion. VPSH 46 & VPSH 100 are stable at high temperatures but also provides superior low temperature flow characteristics.

#### VPS3 68 & VPS3 100

VPS3 68 & VPS3 100 are semi-synthetic oils designed to provide long life under extreme conditions. They provide protection against wear, rust and corrosion. VPS3 68 & VPS3 100 resist oil breakdown due to oxidation and have excellent water resistance. These oils have low vapor pressure, low evaporation loss, and high oxidative, thermal and viscosity stability.

#### VPDE 68 & VPDE 100

VPDE 68 & VPDE 100 are fully synthetic oils designed for long term lubrication in process pumps. They provide outstanding thermal and oxidative stability, a wide operating range and excellent water condensate separation.

#### VPGB 220

VPGB 220 is fully synthetic, high performance gear oil formulated for an array of medium to heavy duty applications. It is suitable for heavy duty ball and roller bearings. This oil provides optimum performance for a wide temperature range and exhibits excellent thermal and oxidative stability.

#### HEALTH & SAFETY

To obtain an MSDS on this or any other Ultrachem product, please contact your representative.

#### TECHNICAL SUPPORT

To learn more about Ultrachem products and applications please contact us at [info@ultracheminc.com](mailto:info@ultracheminc.com)

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**VP SERIES**

TYPICAL PROPERTIES	TEST METHOD	VP 22	VP 32		VP 100	VP 150
ISO Grade	---	22	32		100	150
Viscosity @ 40°C,cSt	ASTM D445	22.9	34		95	142.5
Viscosity @ 100°C,cSt	ASTM D445	4.1	5.5		11.4	13.1
Viscosity Index	ASTM D2270	77	92		95	95
Flash Point, °C/°F	ASTM D92	193/380	215/480		226/439	232/450
Pour Point, °C/°F	ASTM D97	-40/-40	-35/-31		-15/5	-15/5
Vapor Pressure @ 25°C, Torr		1 x 10 <sup>-4</sup>	1 x 10 <sup>-4</sup>		1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>
Specific Gravity	ASTM D1298	0.86	0.86		0.86	0.87
TYPICAL PROPERTIES	TEST METHOD	VPFG 100		VPSH 46	VPSH 100	
ISO Grade	---	100		46	100	
Viscosity @ 40°C,cSt	ASTM D445	95.2		47.3	95.2	
Viscosity @ 100°C,cSt	ASTM D445	12.8		7.9	12.8	
Viscosity Index	ASTM D2270	133		136	133	
Flash Point, °C/°F	ASTM D92	260/500		240/464	260/500	
Pour Point, °C/°F	ASTM D97	-45/-49		-48/-55	-45/-49	
Vapor Pressure @ 25°C, Torr		1 x 10 <sup>-5</sup>		1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>	
Specific Gravity	ASTM D1298	0.87		0.86	0.87	
TYPICAL PROPERTIES	TEST METHOD	VPS3 68	VPS3 100	VPDE 68	VPDE 100	VPGB 220
ISO Grade	---	68	100	68	100	220
Viscosity @ 40°C,cSt	ASTM D445	67	95	70	99	230
Viscosity @ 100°C,cSt	ASTM D445	9.9	12.4	7	10.2	24.1
Viscosity Index	ASTM D2270	132	124	60	83	131
Flash Point, °C/°F	ASTM D92	240/464	240/464	252/485	260/500	262/504
Pour Point, °C/°F	ASTM D97	-33/-27	-31/-23	-38/-35	-29/-30	-35/-31
Vapor Pressure @ 25°C, Torr		1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>
Specific Gravity	ASTM D1298	0.86	0.86	0.96	0.95	0.87

03/10

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