

## 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 46, VP 68, VP 100 & VP 150

VP46, VP 68, 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 32, VPFG 100

VPFG 32 and VPFG 100 are synthetic food grade oils. A polyalphaolefin (PAO) custom blend fluid for improved lubrication at high and low temperatures. These oils provide reduced volatility and are compatible with mineral oils.

### VPSH 32, VPSH 46, VPSH 68 & VPSH 100

VPSH 32, VPSH 46, VPSH 68, & 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 68 & VPSH 100 are stable at high temperatures but also provide superior low temperature flow characteristics.

### VPS3 32, VPS3 68 & VPS3 100

VPS3 32, 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 SDS 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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**ULTRACHEM**

TYPICAL PROPERTIES	TEST METHOD	VP 22	VP 32	VP 46	VP 68	VP 100	VP 150
ISO Grade	---	22	32	46	68	100	150
Viscosity @ 40°C,cSt	ASTM D445	22.9	34	45	69	95	142.5
Viscosity @ 100°C,cSt	ASTM D445	4.1	5.5	7.3	9.3	11.4	13.1
Viscosity Index	ASTM D2270	110	92	120	112	95	95
Flash Point, °C/°F	ASTM D92	193/380	215/480	210/410	217/424	226/439	232/450
Pour Point, °C/°F	ASTM D97	-40/-40	-35/-31	-37/-34	-34/-29	-29/-20	-29/-20
Vapor Pressure @ 25°C, Torr		1 x 10 <sup>-4</sup>	1 x 10 <sup>-4</sup>	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	0.87	0.88	0.86	0.87
TYPICAL PROPERTIES	TEST METHOD	VPCG 68	VPCG 100	VPSH 32	VPSH 46	VPSH 68	VPSH 100
ISO Grade	---	68	100	32	46	68	100
Viscosity @ 40°C,cSt	ASTM D445	59.7	95.2	31.1	47.3	68.6	95.2
Viscosity @ 100°C,cSt	ASTM D445	7.6	12.8	5.75	7.9	10.1	12.8
Viscosity Index	ASTM D2270	150	133	127	136	132	133
Flash Point, °C/°F	ASTM D92	261/501	275/526	240/464	240/464	238/460	260/500
Pour Point, °C/°F	ASTM D97	-50/-58	-45/-49	-48/-55	-48/-55	-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>	1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>	1 x 10 <sup>-5</sup>
Specific Gravity	ASTM D1298	0.87	0.87	0.86	0.86	0.86	0.87
TYPICAL PROPERTIES	TEST METHOD	VPS3 32	VPS3 68	VPS3 100	VPGB 220	VPDE 68	VPDE 100
ISO Grade	---	32	68	100	220	68	100
Viscosity @ 40°C,cSt	ASTM D445	36.6	67	95	230	70	99
Viscosity @ 100°C,cSt	ASTM D445	6.5	9.9	12.4	24.1	7	10.2
Viscosity Index	ASTM D2270	130	132	124	131	60	83
Flash Point, °C/°F	ASTM D92	252/486	261/501	255/491	262/504	252/485	260/500
Pour Point, °C/°F	ASTM D97	-42/-44	-33/-27	-31/-23	-35/-31	-38/-35	-29/-30
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>	1 x 10 <sup>-5</sup>
Specific Gravity	ASTM D1298	0.85	0.86	0.86	0.87	0.96	0.95

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