

## ESTERTEC® VSP High-Performance Lubricant Components

### Technical Data Sheet - Viscosity Grades – ISO 15 to ISO 150

Synthetic esters based on vicinal secondary diols offer exceptional performance based on their innovative structure achieved via a unique production process. Steric hindrance enhances oxidative stability, while secondary alcohols on adjacent carbons significantly improve hydrolytic stability. ESTERTEC® VSP base stocks deliver natural energy efficiency with a combination of low density and high VI that significantly reduce friction and wear. Designed for formulating automotive and industrial lubricants, dielectric fluids and greases that deliver Value, Sustainability and Performance (VSP).

Property, Typical Values	ASTM Test Method	ESTERTEC 2N-1416	ESTERTEC 2LN-1418	ESTERTEC 2L-1425	ESTERTEC 2G-1432	ESTERTEC 7GX-1446	ESTERTEC 7GX-1468	ESTERTEC 7GX-14100	ESTERTEC 8LX-14150
Appearance	Visual	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid
Viscosity, cSt (100 °C)	D7042	3.6	4.1	5	7	9	11	14	18
Viscosity, cSt (40 °C)	D7042	16	18	25	32	46	68	100	150
Viscosity, cSt (20 °C)	D7042	38	42	57	75	110	180	280	400
Viscosity index	D2270	110	125	140	180	165	155	145	130
Density @ 15 °C	D4052	0.895	0.893	0.890	0.890	0.900	0.915	0.925	0.935
Pour point, °C	D97	-60	-40	-25	-42	-40	-40	-35	-30
Flash point, °C (COC)	D92	230	240	250	295	290	290	290	290
TAN, mg KOH/g	D974	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Water content, weight %	D6304	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Noack volatility, weight %	D6375	9	7	3	1	<1	<1	<1	<1
Biogenic content, weight %	D6866	64	65	70	74	60	50	40	30

#### Features

- ▶ Excellent lubricity, low friction and antiwear
- ▶ Best-in-class hydrolytic stability
- ▶ Good thermal/oxidative stability
- ▶ Low density for energy efficiency
- ▶ Readily biodegradable, High biogenic content
- ▶ High flash point, Low pour point

#### Applications

- ▶ Hydraulic fluids
- ▶ Compressor oils
- ▶ Gear and Oven Chain lubricants
- ▶ Engine and Driveline lubricants
- ▶ EAL, Marine, Sustainable lubricants and fluids
- ▶ Metalworking fluids – soluble and straight oils

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