ZSCHIMMER & SCHWARZ

LUBRICANTS

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	115	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	-50	-40	-40	-35	-35
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
Iodine Value	D5554	<5	<5	<5	70	55	40	20	<5
Biogenic content, weight %	D6866	55	58	63	72	62	50	42	30
USDA BioPreferred?	USDA	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Biodegradability, Measured $ThCO_2$%	OECD 301B	81	78	78	80	73	77	55	49
Biodegradability, Rating	OECD 301B	Readily	Readily	Readily	Readily	Readily	Readily	Inherently	Inherently
Aquatic Toxicity	OECD 201, 202, 203	----- All products are not harmful or acutely toxic at the maximum solubility limit ----------							

Features

- Excellent lubricity, low friction and inherent antiwear
- Best-in-class hydrolytic stability
- Good thermal/oxidative stability
- Low density for energy efficiency
- High biogenic content
- Low deposit forming tendency
- High flash point, Low pour point
- Low volatility

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EsterTec synthetic esters