ZSCHIMMER & SCHWARZ

LUBRICANTS

ESTERTEC® VSP High-Performance Lubricant Components

Technical Data Sheet - Driveline/EV Viscosity Grades – ISO 15 to ISO 32

Synthetic esters derived from 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 Value, Sustainability and Performance (VSP).

Property, Typical Values	Test Method	ESTERTEC 2N-1416	ESTERTEC 2LN-1418	ESTERTEC 2L-1425	ESTERTEC 2G-1432
Appearance	Visual	Clear liquid	Clear liquid	Clear liquid	Clear liquid
Viscosity, cSt (100 °C)	ASTM D7042	3.6	4.1	5	7
Viscosity, cSt (40 °C)	ASTM D7042	16	18	25	32
Viscosity, cSt (20 °C)	ASTM D7042	38	42	57	75
Viscosity index	ASTM D2270	115	125	140	180
Density/Specific gravity @ 15 °C	ASTM D4052	0.895	0.893	0.890	0.890
Pour point, °C	ASTM D97	-60	-40	-25	-50
Flash point, °C (COC)	ASTM D92	230	240	250	295
TAN, mg KOH/g	ASTM D974	< 0.10	< 0.10	< 0.10	< 0.10
Water content, weight %	ASTM D6304	< 0.10	< 0.10	< 0.10	< 0.10
Noack volatility, weight % (250 °C)	ASTM D6375	9	7	3	1
Foam tendency, ml @ 25 °C	ASTM D892	< 10	< 10	< 10	< 10
Demulsibility, minutes to 0 ml emulsion	ASTM D1401	15	15	15	15
Copper corrosion	ASTM D130	1b	1b	1b	1b
Thermal conductivity, W/mK	ASTM D7896	0.137	0.139	0.142	0.145
Specific heat, kJ/kg·°C	ASTM E2716	2.15	2.15	2.20	2.15
Dielectric constant	IEC 60247	3.20	3.10	3.00	2.87
Power factor	IEC 60247	< 0.03	< 0.03	< 0.03	< 0.03
Dielectric breakdown voltage, 2mm, KV	ASTM D1816	50	50	50	50
Oxidation onset temperature (OOT) °C	ASTM E2009	255	255	260	255
Hydrolytic stability Oil / Water acidity, mg KOH/g / mg KOH	ASTM D2619	0.03 / 1.0	0.02 / 1.0	0.02 / 1.5	0.01 / 0.8

Features

- Excellent lubricity, low friction
- Best-in-class hydrolytic stability
- Good thermal/oxidative stability
- High flash point, low pour point
- Low density for energy efficiency
- Readily biodegradable, 55–72 % biogenic content

Applications

- Engine oils
- Transmission & driveline fluids
- Metalworking fluids – soluble and straight oils
- Industrial lubricants
- Transformer oils, dielectric fluids
- EAL, sustainable lubricants and fluids

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