

Supplier - ARKEMA

**VPS 11***Fatty Ester Triglyceride**Vegetable Poly-Sulfdes***Typical Properties**

Appearance	Light Brown Fluid
Color,Gardner	< 7
Viscosity@40°C,cSt	200 - 300
Viscosity@100°C,cSt	35
Copper Corr+	≤ 1b
Sulfur Content (Active),%wt	> 10 (<1)
H <sub>2</sub> S Test,Acetate Paper Color	< 3
Specific Gravity	0.950
Average Weight,lbs/gal	7.93
Flash Point,°C	> 150
Pour Point,°C	≤ -10
P <sub>B</sub> / P <sub>D</sub> ++	80 / 250
Load Wear Index <sup>++</sup>	42
4 Ball Wear(IP239,40kg,1h),mm	0.5
Reichert Test(300N Load),mm <sup>2</sup>	1.2

\* 10%, 3h, 100

\*\* 4 Ball EP, ASTM D2783, 5% in Paraffinic Base Oil

**Product Description**

**VPS 11** is a light brown liquid with very slight odor and no chlorinated impurities. It is a lubricity- enhancing agent for industrial and metal working formulations, which also provides anti-wear and extreme pressure properties. It does not corrode copper alloys.

**VPS 11** is recommended for the formulation of metal working fluids especially when working with copper and its alloys. Its EPS properties are enhanced when combined with Arkema Inc.'s **TPS** products (**TPS 20** is particularly recommended).

Print date: 13-06-26

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