

Supplier - ARKEMA

VPS 11*Fatty Ester Triglyceride
Vegetable Poly-Sulfides*

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 ₂ 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 _B / P _D ++	80 / 250
Load Wear Index ⁺⁺	42
4 Ball Wear (IP239, 40kg, 1h), mm	0.5
Reichert Test (300N Load), mm ²	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 extrerne 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).

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