



Focus Ester PA 117

Polymerized Saturated Branched-Chain Ester from Group II Oils

Product Description

Focus Ester PA 117 is a unique synthetic polymerized ester designed to boost performance and enhance finish in severe metalworking applications. **Focus Ester PA 117** is oil-soluble, but can be used to make high performance soluble oil and semi-synthetic machining coolants as well as drawing and stamping fluids. **Focus Ester PA 117** has a molecular weight that gives it a perfect structure to replace chlorinated paraffins. **Focus Ester PA 117** is a fully saturated branched-chain fatty acid ester, which offers the highest level of hydrolytic, oxidative and biostability properties. In addition to replacing chlorine, **Focus Ester PA 117** can be used to replace or reduce treat levels of all boundary and EP additives, like phosphorous, sulfur, lard oil, blown oil and other fatty friction modifiers.

Applications

Focus Ester PA 117 is formulated into emulsion systems like soluble oils, semi-synthetic, synthetic, drawing and stamping and other water-dilutable fluids that provide exceptional lubricity. Treatment levels of 1% to 15% into the concentrate are suggested. **Focus Ester PA 117** can be used in straight cutting oil and industrial lubricant oil applications in combination with or without low amounts of sulfur and phosphorus, depending upon the severity of the operation. **Focus Ester PA 117** will replace chlorine, inactive sulfur compounds, blow oil, lard oil and other fatty friction modifiers.

Benefits

- Excellent thermal, oxidative and hydrolytic stability
- Ashless: will not cause staining
- Light in color with no odor
- High degree of saturation
- Replaces all fats and fatty compounds, reducing biological attack
- Offers dual purpose capability for cutting and hydraulics
- Very low iodine value

Typical Properties

Feature	Data
Appearance @ 30C	Clear viscous amber liquid
Specific gravity 60F (15.6C)	1.001
Viscosity (cst) @ 40C	3,031
@ 100 C	230
Viscosity index	207
Acid number (mgKOH/g)	5.0 max

Packaging

Packaging	Description	Net Wt.
Drums	55 gallon non-returnable	435 lbs
Totes	275 gallon non-returnable	

Registration

USA	TSCA
Canada	DSL
Europe	EINECS

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