

**BASE 12 SE**  
***Sulfurized Methyl Ester***  
***Lubricity/Extreme Pressure Additive***

**Base 12 SE** is a sulfurized methyl ester designed to offer both lubricity and extreme pressure properties in oil and water dilutable metalworking fluids. **Base 12 SE** contains active sulfur and is NOT suitable for products destined for use in yellow metal applications, as it will stain.

**Base 12 SE** can be utilized in straight oil machining, drawing and stamping, as well as a soluble oil component. Below are typical starting guidelines for usage:

	<u>% Weight</u>
Straight Oil Machining	2-15
Straight Oil Drawing & Stamping	3-10
Soluble Oil Machining	5-15

**TYPICAL PROPERTIES**

Property	Result
Total Sulfur, % (Active, %)	13 (2-4)
Copper Corrosion, 10% in oil, 3 hrs, 210°F	4a
Specific Gravity, 25°C	.97
Density, lb/gal	8.1
Viscosity @ 100°F (210°F), SUS	110 (42)
Viscosity @ 40°C (100°C), cSt	19 (4)
Acid Value, mgKOH/g	4
Flash Point, C.O.C., °F (°C)	>350 (>177)
Pour Point, °F (°C)	55 (13)

**Base 12 SE** may be stored in an original container or bulk storage tank. Prolonged exposure to 0°F may result in solidification. If the product solidifies, warming to 100-110°F will reconstitute the product. Recommended blending temperatures should not exceed 100-130°F.

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