

**Typical Properties**

Appearance	Dark Brown Liquid
Specific Gravity@25°C	1.000 - 1.100
Viscosity@40°C, cSt	550 - 850
Sulfur Content (Active), %wt	17 - 20 (6)
Acid Value, mgKOH/g	≤ 8
Flash Point C.O.C., °C	> 190
Copper Corrosion+	4B
P <sub>B</sub> / P <sub>D</sub> , kg++	88 / 315
Std Packaging (NW / GW, Kg)	200.0 / 217.0

**Product Description**

**SMART BASE 1219** is a sulfurized fatty oil additive with relatively high sulfur content. It possesses high lubricity, can exhibit superior performance in cold heading and drawing oil formulations.

**SMART BASE 1219** possesses superior EP properties, so it is specially suitable for machining tough metals like stainless steels and titanium alloys.

**SMART BASE 1219** contains active sulfur; so it is not suitable for processing copper, bronze and brass.

**Applications****Suggested Treat Rates, %wt**

Reaming	10 - 20
Reaming	10 - 20
Cold Heading (Cut Side Only)	20 - 30
Reaming	10 - 20
Turning	5 - 10

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