

Supplier - SMART OIL  
**Smart Base 1219**  
*Sulfurized Fatty Oil*  
*Dark Color Sulfurized Additives*

### 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

\*10% additive in SN150, 3h, 100

\*\*4 Ball Wear Test; 5% additive in SN150, Server Motor Speeds reach 1500rpm (P<sub>B</sub>) and 1760rpm (P<sub>D</sub>) in 0.03sec.

### 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

Reaming  
 Reaming  
 Cold Heading (Cut Side Only)  
 Reaming  
 Turning

#### Suggested Treat Rates, %wt

10 - 20  
 10 - 20  
 20 - 30  
 10 - 20  
 5 - 10

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