

Supplier - SMART OIL  
**Smart Base 1417**  
*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                   | 250 - 500         |
| Sulfur Content (Active), %wt          | 16 - 18 (6)       |
| Acid Value, mgKOH/g                   | ≤ 8               |
| Flash Point C.O.C., °C                | > 160             |
| Copper Corrosion+                     | 4B                |
| P <sub>B</sub> /P <sub>D</sub> , kg++ | 88 / 250          |

\*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 1417** is a premium sulfurized fatty additive, with both vegetable and lard oils as raw materials. It possesses low viscosity, so is easy to blend. The color for 5% dilution in base oil is translucent deep brown.

**SMART BASE 1417** possesses relatively good wetting and lubricating characteristics when compared to traditional sulfurized lard oil. It is not easy to corrupt, with good cleansing property after operation.

**SMART BASE 1417** possesses very good EP property; specially suitable for severe operation on hard-to-machine steel alloys.

**SMART BASE 1417** contains active sulfur, so it is not suitable for machining general copper, bronze and brass.

#### Applications

#### Suggested Treat Rates, %wt

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

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