

Supplier - SMART OIL  
**Smart Base 1410**  
*Sulfurized Fatty Oil*  
*Dark Color Sulfurized Additives*

### Typical Properties

Appearance	Brown Liquid
Specific Gravity@25°C	0.950 - 1.000
Viscosity@40°C, cSt	100 - 200
Sulfur Content (Active), %wt	9 - 11 (0)
Acid Value, mgKOH/g	≤ 8
Flash Point C.O.C., °C	> 160
Copper Corrosion+	1B
P <sub>B</sub> /P <sub>D</sub> , kg++	82 / 200

\*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 1410** is a non-active sulfurized fatty oil, suitable for machining non-ferrous and ferrous metals.

**SMART BASE 1410** gives a clear dark red amber translucent fluid when blended with base oil at 5%; with low viscosity, so easy to blend.

**SMART BASE 1410** possesses superior lubricity and EP properties; it can improve surface finishing of workpieces after operation.

**SMART BASE 1410** possesses excellent compatibility. It can be used with majority of mineral oils, and can be used in extensive formulations like cutting oils, drawing oils and cold heading oils.

### Applications

Gear Cutting  
 Cold Heading  
 Automatic Screw Machine

### Suggested Treat Rates, %wt

5 - 10  
 25 - 50  
 10 - 20

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