

Supplier - SMART OIL  
**Smart Base 1110**  
*Sulfurized Fatty Oil*  
*Dark Color Sulfurized Additives*

### Typical Properties

Appearance	Dark Brown Liquid
Specific Gravity @ 25°C	0.950 - 1.000
Viscosity @ 40°C, cSt	900 - 1300
Sulfur Content (Active), %wt	9 - 12 (0)
Acid Value, mgKOH/g	< 8
Flash Point C.O.C., °C	> 200
Copper Corrosion+	1B
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 1110** is a non-active sulfurized lard oil additive; suitable for processing non-ferrous and ferrous metals.

**SMART BASE 1110** is relatively viscous; suitable for various formulations such as cutting oils, stamping and drawing oils, rolling oils and greases.

**SMART BASE 1110** can be used with naphthenic or paraffinic base oils.

#### Applications

Automatic Screw Machines  
 Turning  
 Gear Cutting  
 Soluble Oils

#### Suggested Treat Rates, %wt

10 - 15  
 5 - 10  
 5 - 10  
 3 - 15

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