

**Steam Cylinder Oil S-220, S-460 & S-680**

Steam Cylinder/Gear Oil

**Product Description**

Steam Cylinder Oil S-220/S-460/S-680 consists of high viscosity index base oils with foam resistance and rust protection properties. The product possesses excellent lubricity and metal wettability characteristics with high film strength. This combination of metal wetting and oil emulsibility results in improved oil lubricity in the presence of wet steam or water. Oil separation from the condensate will occur at moderate levels.

These lubricant features properties to meet the heavy load and high operating temperature demands of enclosed worm gears.

**Applications**

Recommended for severe steam cylinder applications when parts are subjected to saturated steam of 150 pounds pressure and under (higher pressures for dry steam), and where the quality of steam is considered poor and oil separation from the condensate is not an acute consideration.

This oil atomizes readily and adheres to cylinder parts under the most severe steam conditions. Cylinder Oil S is effective in lubricating sliding gear surfaces in worm gear applications, couplings, and bearings in the appropriate viscosity grade. Compression systems embodying various gases entrained with moisture can also be adequately lubricated.

**Typical Properties**

Property	S-220	S-460	S-680
ISO Grade	220	460	680
Viscosity @ 40°C (cSt)	217	429	625
Viscosity @ 100°C (cSt)	18.6	29.0	37.0
Viscosity Index	95	95	95
Flash Point (COC), °F(°C)	465(241)	500(260)	510(266)
Pour Point, °F(°C)	5(-15)	10(-12)	15(-9)
Gravity, API @ 60°F	28.5	27.0	22.0

\*The values shown are typical of current production. Some are controlled in the manufacturing process while others are not. All of them may vary within tolerable ranges.