



Steam Cylinder OilTM

SAPON-A-MED680 COMPOUNDED CYLINDER OIL (ISO680)

10% Compounded 100% Loss Lubricant

For Saturated or Superheated Steam Between 125 psi and 200 psi and less than 450° F*

Green Velvet Steam Cylinder Oil® is formulated specifically for steam engine lubrication by reciprocating steam power engineers. It is custom blended to exacting standards so it will perform consistently day after day in most kinds of engine service.

SAPON-A-MED680 Compounded Cylinder Oil is intended for high pressure saturated steam conditions that develop moderate water washing effects. These effects prevent a straight mineral oil from forming an efficient film on rubbing surfaces inside the cylinders and valve chests. When properly atomized and dispersed in the steam at the engine inlet SAPON-A-MED680 forms a tacky emulsion that is laden with high viscosity mineral oil. This oil laden emulsion adheres to the rubbing surfaces, resists the water washing effects and helps form an efficient lubricating film, thus reducing friction and galling in the cylinders and valve chests. SAPON-A-MED680 utilizes a high viscosity base oil that builds a tough lubricating film and withstands higher steam pressures up to and beyond 200 psi.

The high percentage of compounding in SAPON-A-MED680 allows a conservative feed rate with good lubrication performance. However, the stable emulsions created in the cylinders are not susceptible to good separation from exhaust condensate that will be returned to the boiler as feed water. Where condensate purity in exhaust traps, condensers and hotwells is critical a lighter compounding or straight mineral cylinder oil fed at higher feed rates may be required.

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Typical Specifications

Base Oil:	Paraffinic Base Stock/Thickener Blend
Compounding:	5% Acidless Fixed Oil (animal derived)
Additives:	Film/surface modifiers for 100% loss lubrication
Color:	Opaque Dark Green
Viscosity:	ISO680
Flash Point:	580° F C.O.C.
Carbon Residue:	1.60% Conradson

The chemical, physical and physiological properties of this product have not been fully investigated and it's handling, mixing with incompatible chemicals, or use may be hazardous. The product is for industrial use only. Do not ingest. Keep away from children. Material safety data sheets are available upon request.

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