



SANTOVAC® 9

Vacuum and High-temperature Fluid

SANTOVAC® 9 is a polyphenyl ether vacuum and high-temperature fluid with exceptionally low volatility and extremely high resistance to degradation from heat, oxygen, radiation, and chemical attack. It is a thermally stable, halogen and silicon-free, clear fluid. Because of these attributed SANTOVAC® 9 is extremely durable and offers longer fluid life, cleaner vacuums, and better pump down times than hydrocarbons and silicone fluids. SANTOVAC® 9 is designed for applications where extreme high temperature or adverse environments are expected. Its low vapor pressure and low back streaming rate make LN2 traps unnecessary for the 10⁻⁸ Torr range. It is compatible with most metals and elastomers, commonly used in high temperature applications and does not react with the gases most commonly found in high vacuum systems. SANTOVAC® 9 is considered essentially nontoxic, especially when proper hygienic practices are employed. SANTOVAC® 9 is quite simply the best vacuum pump fluid available for the price anywhere.

ATTRIBUTES

◆ Exceptionally Low Volatility	◆ High Thermal Stability
◆ Resists Chemical Attack	◆ High Refractive Index
◆ Resists Oxidation and Radiation Degradation	◆ Excellent Resistance to Rust And Corrosion
◆ Reduces Noise in Many Applications	◆ Precious Metal Protectant

TYPICAL PHYSICAL AND PERFORMANCE PROPERTIES¹

Ultimate Vacuum, torr (untrapped)	10 ⁻⁷ to 10 ⁻⁸	Appearance	Clear, colorless to pale yellow
Vapor Pressure, torr, 25°C	3x10 ⁻⁸	Boiling Point, at 0.5 Torr, °C	224
Viscosity at 25°C – ASTM D 445, cSt	180	Heat of Vaporization, cal/gram	49.0
Pour Point – ASTM D 97, °C	<4	Auto Ignition Temperature, °C	590
Flash point – ASTM D 92, °C	282	Surface Tension, dynes/cm	49.0
Refractive Index at 25°C	1.620		
Specific Gravity at 25°C	1.17		
Thermal Stability up to °C	449	Metals (Steel/Copper) Compatibility	Pass

¹ Please note that these data are typical of samples tested in the laboratory and are not to be considered as sales specifications.