

TECHNICAL DATA SHEET

SANTOVAC® 5

Polyphenyl Ether Vacuum and High-temperature Fluid

SANTOVAC® 5 vacuum and high-temperature fluid has exceptionally low volatility and is a thermally stable, halogen-free, clear, colorless fluid. It is extremely resistant to degradation from heat, oxygen, radiation, and chemical attack. SANTOVAC® 5 is designed for applications where extreme high temperature and adverse environments are expected. It is compatible with most metals and elastomers, commonly used in high temperature applications. SANTOVAC® 5 is considered essentially nontoxic, especially when proper hygienic practices are employed.

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

Appearance	Clear, Colorless Fluid	Corrosion and Oxidation Test - ASTM D 4636 (FTM 791-5307/5308) [600°F, 48h]	
Viscosity at 40°C – ASTM D 445, cSt	370	TAN Change	0
Viscosity at 100°C	13.0	Viscosity Change at 40°C	None
Pour Point – ASTM D 97, °C	4	Metal Weight Change, mg	
Flash point - ASTM D 92, °C	288	Steel	0.02
Refractive Index at 25°C	1.630	Silver	0.03
Vapor Pressure, mm Hg at 260°C	0.2	Copper	0.14
Thermal Stability up to °C	453	Aluminum	0.04
Surface Tension at 100°F, Dyne/cm	49.9	Elastomer Compatibility – ASTM D 471 [Viton, Silicone, Teflon, Buna N]	Pass
Precious Metals Compatibility	Pass	Bearing 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.