



COPALTITE TDS Sheet

Description:

COPALTITE is a heat-resistant compound used for sealing threads, flanges, and other fittings where very high temperatures and pressures are involved. COPALTITE is especially effective in the temperature range of 315 degrees to 1500 degrees Fahrenheit. For example, after heating the area to be sealed for 15 minutes at 300 degrees Fahrenheit the COPALTITE cures into an extremely heat and chemically resistant sealant. Its immunity to vibration, thermal shock, and chemicals is matchless. Although the seal is permanent, it may be broken when required.

COPALTITE is available in two forms:

- Liquid Form is used for threaded and other machined connections. For close tolerances thin films of sealant are attainable. Although normally used without gaskets, Liquid Form makes an excellent gasket dressing.
- Cement Form is used for rough or scored surfaces. It is used also as a gun grooving compound. It possesses anti-seize properties for very high temperature applications.

Recommended Uses:

Steam Turbines
Heat Exchangers
Pressure Vessels
Pressure Gas Lines
Refrigeration Lines
Condensers
Boilers
Compressors

COPALTITE Tech Data:

TYPICAL PROPERTIES

COPALTITE contains no zinc, arsenic, antimony, bismuth or miscellaneous metals

Trace Elements (average)	<i>Lead</i>	<i>10 PPM</i>
	<i>Mercury</i>	<i>10 PPM</i>
	<i>Sodium</i>	<i>100 PPM</i>
	<i>Copper</i>	<i>10 PPM</i>
	<i>Fluorine</i>	<i>10 PPM</i>
	<i>Phosphorus</i>	<i>10 PPM</i>
	<i>Chlorine</i>	<i>100 PPM</i>
	<i>Sulfur</i>	<i>0.18%</i>

<i>Consistency</i>	<i>Liquid Form 10,000 cps viscosity</i>
	<i>Cement Form 80,000 cps viscosity</i>
<i>Percent Solids</i>	<i>High Solids content averages 86%</i>
<i>Adhesion</i>	<i>Good to metals, ceramic, glass, and most plastics</i>
<i>Shrinkage</i>	<i>Less than 1% (Cement Form)</i>
<i>Coefficient of Expansion</i>	<i>Approximately 50 x 10⁻⁶</i>
<i>Chemical Resistance</i>	<i>Steam - Excellent</i>
	<i>Oil - Excellent</i>
	<i>Acids- Good</i>
	<i>Ammonia - Excellent</i>
	<i>Hydraulic Fluids - Excellent</i>
	<i>Caustic Soda - Fair</i>
	<i>Hydrocarbons - Excellent</i>
<i>Gasoline - Excellent</i>	

