Technical Data Sheet

Graphite Conductive Adhesive 154

#12691-30

Graphite Conductive Adhesive 154 is a graphite dry film lubricant that provides a clean, long-lasting lubrication without alteration of the dimensions of the component. This product requires simple surface preparation and can be applied to the majority of substrates with the use of spray, brush, or dip techniques. Not only is our product a significantly stable compound of processed micrographite and thermoplastic resin in isopropyl alcohol, but it also dries at room temperature. The Graphite Conductive Adhesive 154 requires minimal pretreatment, is easy to apply, has a high lubricity, anti-seizes in nuclear applications, is applied as a concentrate, and has outstanding adhesion to most substrates.

Instructions

Surface Preparation

Before coating substrates, we recommend that they be clean and dry. You may use a solvent wipe. For maximum adhesion, please note the following pretreatments:

Mixing

Our product is supplied in its concentrated form. Please note that it is thixotropic in nature and has the tendency to gel on standing. Preparation includes thorough agitation, then dilution with isopropanol to yield the required consistency for the application of choice.

Application

Diluted Graphite Conductive Adhesive 154 may be applied with the use of a spray, brush, dip, or roller. We do recommend using a spray, as it yields the most uniform coverage.

Curing

This product air dries within five minutes under normal temperature and humidity. Complete cure properties will develop in about two hours with consideration of film thickness and drying conditions.

Technical Information

Composition Properties

Lubricant	colloidal graphite
Binder	thermoplastic resin
Fluid component	isopropyl alcohols, esters, ketones
Color	black
Solids content by weight	20%
Consistency	gel
Density	0.9 kg/l (7.5 lb/gal)
Flash point	10°C (50°F) Tag closed cup
Theoretical coverage	11.03 m^2/l @ 12.7µm (450 ft^2/gal @ 1 mil)
VOC (dehydrates neat)	710 g/l (5.9 lb/gal)