



Performance Products for Today's Technology...

G-Start

Graphite Lubricant / Resistance Coating

Product Description

G-Start contains highly refined graphite particles suspended in ethanol with a special proprietary binder.

G-Start is supplied in a convenient 500 ml aerosol package providing a dry film coating, which offers superior lubrication, excellent oxidation protection and outstanding electrical capabilities.

G-Start is easy to apply, fast drying at room temperature and adheres to all substrates compatible with the carrier.

G-Start offers excellent adhesion to metals and most plastics. This feature, combined with high lubricity and electrical properties makes G-Start desirable in the design of electronic parts.

Product Features and Benefits

- ✓ HIGH LUBRICITY AND EXCEPTIONAL RELEASE
- ✓ EXCELLENT ADHESION TO METALS, GLASS, PLASTICS
- ✓ GOOD COVERING ABILITY
- ✓ FAST ROOM TEMPERATURE CURE
- ✓ GRANULOMETRIC DISTRIBUTION ALLOWS FILM THICKNESS OF .0003 -.0005 INCHES (.008-.013 MM)
- ✓ DOES NOT CONTAIN HALOGENS OR HYDROCARBONS
- ✓ GOOD ELECTRICAL RESISTIVITY - 1.2K OHMS/SQ @ 1 MIL
- ✓ PROVIDES FASTER START-UPS FOR TOOLING
- ✓ PROTECTS AND CONDITIONS DIES AND MOLDS DURING STORAGE
- ✓ COEFFICIENT OF FRICTION - 0.15 (STATIC)

Typical Applications

Lubrication

Engine Assembly and Run In
Aluminum Extrusion Cold Billet Coating
Permanent Mold Release Coating
Intricate Machine Mechanisms
Assembly of Rubber Components
Die and Mold Protection
Glass Molds

Electrical

Pulley Belt Static Charge Bleed
Plating Printed Circuit Holes
Coatings for Cathode Ray Tubes
Shielding
Bleed Paths
Plating Nonconductors
Conductive Coating

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Quality System Registered to ISO 9001



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Physical Properties as Supplied

DESCRIPTION	METHOD	VALUE
Lubricant	High Purity Graphite	10% Solids
Appearance / Color	Visual	Black Liquid
Shelf Life	Visual	1 Year
Flash Point	MCC 44	<20° F
Carrier	Visual	Ethanol
Particle Size	MCC 177	D90 < 4 micron

Physical Properties as Cured

DESCRIPTION	METHOD	VALUE
Lubricant	Graphite	10% Solids
Appearance / Color	Visual	Black
Coefficient of Friction	ASTM	0.15 Static
Sheet Resistance	ASTM	1.2 K ohms/sq @ 1 mil
Service Temperatures	As a lubricant	400° F (204° C)
	As electrical coating	150° F (65° C)
Intermittent Temperature	As a lubricant	850° F (454° C)

* MCC = CONDAT's Control Method

Method of Use

Surface Preparation

G-Start adheres remarkably well to steel, aluminum, stainless steel, glass copper alloys, rubber and plastics, with a minimum of pretreatment. For optimum results, substrates should be cleaned with a solvent. Surfaces should be clean and dry before coating.

Application

The container should be shaken thoroughly before using. To ensure an even coating, spray about 8-10 inches from the substrate. Several light passes should apply the required coating thickness. After use, clean the nozzle by inverting container and pushing nozzle down until clear.

Curing

For general lubrication, the G-Start coating is ready for use when dry to the touch – approximately 3 minutes at room temperature.

For electrical applications, air dry for 30 minutes, or air-dry for 5 minutes then bake for 5 minutes at 170° F (77° C).

Precautions

G-Start is flammable. Do not use near sparks, heat or open flame. Use with adequate ventilation. Refer to Material Safety Data Sheet for first aid instructions.