

Graphite Aerosol Product No. 16058

Aerodag® G

Graphite Lubricating Resistance Coating

Description: Aerodag® G, which is supplied in a convenient aerosol can, provides a dry film coating which offers superior lubrication and excellent electrical capabilities. It contains highly refined graphite particles suspended in isopropyl alcohol with a special thermoplastic resin binder. Aerodag® G is easy to apply, fast drying at room temperature, and adheres to all substrates compatible with the carrier.

Aerodag® G offers excellent adhesion to most plastics. This feature, combined with high lubricity and electrical properties, makes Aerodag® G especially valuable in the design of lightweight electrical/electronic parts. Specific advantages offered by Aerodag® G include:

- High lubricity
- Excellent adhesion to metals, glass, plastics
- Good parting ability
- Fast room-temperature cure
- Thin film, 0.0003 to 0.0005 inches (0.008 to 0.013 millimeters)
- Minimum surface pretreatment
- Compatible with most substrates
- Good electrical resistivity
- No ozone-depleting chemicals

Aerodag® G is available in liquid concentrate form as PELCO® Conductive Graphite, Prod. No. 16053.

Typical Applications:

Lubricating and Parting

Vacuum lubricant
Sliding surfaces
Mold Release

Electrical

Specimen preparation for SEM and EM applications
Charge bleed
Plating nonconductors
Static Bleed paths
Shielding

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TED PELLA, INC.

Tools for Science and Industry

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Physical Properties (as supplied):

Lubricant	: Graphite
Carrier	: Isopropyl alcohol
Binder	: Thermoplastic resin
Color	: Black
Shelf life	: Two years from date of qualification under original seal
VOC	: 984 g/l

Physical Properties (as cured):

Color	: Black
Coefficient of friction	: 0.15 (static)
Service temperature	: General lubricant – 400°F (204°C) Electrical – 150°F (65°C)
Intermittent temperature	: General lubricant – 850°F (454°C)
Sheet resistance	: 1.2K ohms/square @ 1 mil

Method of Use: Surface Preparation

Aerodag[®] G adheres remarkably well to steel, aluminum, stainless steel, glass, copper alloys, rubber, and plastics with a minimum of pretreatment. For best results, substrates should be cleaned with a standard solvent or sandblasted. Substrates should be clean and dry before coating.

Application

Shake the container thoroughly before using. To ensure an even coating, spray about 8-10 inches from the substrate. Four to six light passes should build up the required coating thickness. After use, invert the can and press the button once or twice to clear the nozzle.

Curing

For general lubrication, the coating supplied by Aerodag[®] G is ready for use when dry to the touch—about 5 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: See Material Safety Data Sheet for proper first aid instructions.

Container Size: 10 oz net weight (283.5 grams) aerosol.

Note: Aerodag is a registered trademark of Acheson Industries, Inc.

Aerodag[®] G does not contain any ozone-depleting chemicals.

The information given and the recommendations made herein are based on our research and are believed to be accurate but no guaranty of their accuracy is made. In every case, we urge and recommend that purchasers, before using any product in full scale production, make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions. THE PRODUCTS DISCLOSED HEREIN ARE SOLD WITHOUT ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED. No representative of ours has any authority to waive or change the foregoing provisions but, subject to such provisions, our engineers are available to assist purchasers in adapting our products to their needs and to the circumstances prevailing in their business. Nothing contained herein shall be construed to imply the non-existence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of this patent. We also expect purchasers to use our products in accordance with the guiding principles of the American Chemistry Council[®] program.

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