MicroCare MEDICAL™

Duraglide™ Dry Lubricant

Aerosol Packaged

Product Information

Aerosol packaged Duraglide™ Dry Lubricant Spray is a medical-grade Polytetrafluoroethylene (PTFE) micro dispersion lubricant. Ideal for medical mold-release and component assembly applications, this lubricant is spray-applied leaving a thin, uniform, dry, PTFE lubricant coating over any surface. This enables a low cost, non-migrating, inert coating that imparts ultra-low friction surfaces and minimal sticking problems common in low-speed, light-load mechanical assemblies.

Duraglide Dry Lubricant Spray is a PTFE surface treatment. It offers many important benefits:

- Low cost convenient aerosol dispensing
- Imparts a low coefficient of friction of 0.06
- ISO 10993* tested and certified
- Factory calibrated PTFE content for consistent results
- Nonflammable handling in storage and use
- No special equipment requirements
- Hostile to bioburden issues
- Compatible with: ETO and radiation sterilization processes
- Oil free; non-migrating/non-staining
- Excellent materials compatibility; plastic-safe
- Fast drying with minimal odor

Physical & Chemical Properties	
Odor	Slight Ethereal
Solubility in Water	Not Soluble
% Volatile by Weight (Carrier)	100
Lubricant Coefficient of Friction	0.06
PTFE Particle Size Average Bulk Average Mean	 1-15 (microns) 3.7 (microns)
Carrier Evaporation Rate (Ether = 1)	>1
Flash Point	Not Flammable
ISO 10993* Tested and Certified	Yes

** Contact MicroCare Medical for specifics regarding ISO 10993 certification.*

Packaging	
Aerosol[1] - 14 oz / 397 g	MCC-DGF14A
Aerosol Packaging	12 cans / box
Recycle	1 40 FE

Note: Products sold by weight, not volume.
One-gallon and smaller sample containers are available upon request.

The aerosol packaged *Duraglide* Dry Lubricant Spray is part of a family of *Duraglide* Dry Lubricant options.

Contact *MicroCare* for details.

Why is Duraglide called a “dry lubricant” when it is applied as a liquid?

Duraglide consists of PTFE particles dispersed in a fast-drying liquid carrier. When applied by dipping, spraying or brushing, the liquid carrier quickly evaporates (typically in seconds) and the treated parts are coated with an oil-free, PTFE lubricant that is dry to the touch and non-migrating.

Environmental

Duraglide Dry Lubricant ingredients are accepted by the U.S. Environmental Protection Agency (EPA) under the Significant New Alternatives Policy (SNAP) Program. Contact *MicroCare* for details related to EU REACH compliance requirements.

Application Methods

Formulated specifically for medical device mold-release and component-assembly uses, the aerosol packaged *Duraglide* Dry Lubricant is ready-to-use and calibrated with a concentration of PTFE optimized for most lubrication needs. Normal precautions (safety glasses, etc.) should be used when using this product. See product SDS prior to use for full details on health and safety.

Treated surfaces should be clean and dry prior to application of the lubricant. To ensure the lubricant dispenses uniformly when sprayed, shake the can and make certain the mixer ball contained inside the can moves freely before each use. Hold the can 10 - 12 inches (25 - 30 cm) from the surface to be treated. For the best results, apply a thin mist. The coating dries in seconds and can be seen on the part. A single treatment is adequate for the most applications.

Contact *MicroCare* Medical for details on alternative application methods including manual and automated liquid dipping, wiping, brushing or spraying.

Heat Treatment

Coated parts can be heat treated for greater coating durability. Heat-treatment offers enhanced durability by melting the coating onto the substrate of the part. The process is simple and involves heating the part surface to 300-315 °C (575-600 °F). Measure the surface temperature directly with a thermocouple. The coating appearance may change from opaque white to a darker translucent surface and finally appear clear wet. Maintain the surface temperature of the coated part (not the temperature of the ambient air) at recommended temperature for 5 - 10 minutes. If a white residue remains, buff with a soft cloth after cooling. No further treatment is required.

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