



## Technical Bulletin

### Duraglide™ Dry Lubricant Aerosol Packaged

#### Introduction

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.

#### Product Information

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

The aerosol packaged Duraglide Dry Lubricant Spray is part of a family of Duraglide Dry Lubricant options from a few ounces up to 55 gallon drums. Contact MicroCare for details.

#### 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.

#### 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.

## Packaging and Availability

Packaging	
Aerosol <sup>1</sup> - 14 oz / 397 g	MCC-DGF14A
Aerosol Packaging	12 cans / box
Recycle	

*Note: Products sold by weight, not volume.*

*One-gallon and smaller sample containers are available upon request.*

## Making Your Devices Better

[www.MicroCareMedical.com](http://www.MicroCareMedical.com)

### MicroCare Corporation

595 John Downey Drive  
New Britain, CT 06051 USA  
CAGE: OATV9  
Tel: +1 860 827 0626  
Toll Free: 1 800 638 0125  
Email: TechSupport@MicroCare.com

### MicroCare Europe Bvba

Vekestraat 29 B11  
Industriezone 't Sas  
1910 Kampenhout, Belgium  
Tel: +32 2 251 95 05  
Fax: +32 2 400 96 39  
Email: EuroSales@MicroCare.com

### MicroCare Asia Pte Ltd

102E Pasir Panjang Road  
#03-01 Citilink Warehouse Complex  
Singapore 118529  
Tel: +65 6271 0182  
Email: TechSupport@MicroCare.sg