

## Introduction

The aerosol packaged *Duraglide* dry lubricant is a medical grade Polytetrafluoroethylene (PTFE) microdispersion lubricant. Ideal for medical mold-release and component assembly applications, this lubricant is spray-applied leaving a thin, uniform, dry, PTFE lubricant coating over almost any surface. This enables a low cost, non-migrating lubricant coating that imparts ultra-low "break-away" forces and minimal "stiction" problems common in low-speed, light-load applications.



## Physical Properties

*Duraglide* dry lubricant is a PTFE based aerosol-spray surface treatment. It offers many important money saving benefits:

- \* Low cost and convenient aerosol-spray 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
- \* Inimical 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 is part of a family of *Duraglide* dry lubricant options including all sizes of non-pressurized containers from a few ounces up to 55 gallon drums. Call MicroCare for details on how we can help you with your application.

## Properties

Odor	Slight Ethereal
Solubility in Water	Not soluble
% Volatile by Weight (Carrier)	100.0
Lubricant Coefficient of Friction	0.06
Telomer Particle Size Average Bulk: Mean:	1-15 (microns) 3.7 (microns)
Carrier Evaporation Rate	(Ether = 1) >1
Flash Point	Not Flammable
ISO 10993 Certified	Yes
HCS Pictogram	Not Required

## Environmental

*Duraglide* dry lubricant formulas are accepted by the U.S. Environmental Protection Agency (EPA) under the Significant New Alternatives Policy (SNAP) program as a substitutes for ozone depleting substances. *Duraglide* dry lubricant formulas have an Ozone Depletion Potential (ODP) of zero.

## Application Methods

Formulated specifically for medical device mold-release and component assembly uses, the aerosol packaged *Duraglide* dry lubricant is sold ready to use and calibrated with a concentration of PTFE solids 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. Component surfaces should be clean and dry prior to application of the lubricant. Shake the can and make certain the mixer ball contained inside the can moves freely before each use. This assures the PTFE solids will dispense uniformly when sprayed. Hold the can 10-12 inches (25-30 cm) from the surface to be treated. For best results, apply a thin mist. A single treatment is adequate for most applications. Contact MicroCare for more details on alternative methods of applying *Duraglide* dry lubricant. Alternative application methods include manual and automated dipping, wiping, brushing or spraying.

## Heat Treatment

Coated parts can be heat-fused if greater coating durability is desired. Heat-fused coatings offer enhanced durability by melting the PTFE onto the substrate of the treated part. The process is simple and involves heating the part surface to 300-316°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 and wet. Maintain the surface temperature of the coated part (not the temperature of the ambient air) at recommended temperatures for 5 - 10 minutes. If a white residue remains, buff with a soft cloth after cooling. No further treatment is required.

## Packaging

Part #	MCC-DGF14A
Package Size	14 oz aerosol 12 cans/case

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