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 applications.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Slight Ethereal</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not soluble</td>
</tr>
<tr>
<td>% Volatile by Weight (Carrier)</td>
<td>100.0</td>
</tr>
<tr>
<td>Lubricant Coefficient of Friction</td>
<td>0.06</td>
</tr>
<tr>
<td>Telomer Particle Size Average</td>
<td>1-15 (microns)</td>
</tr>
<tr>
<td>Bulk: Mean:</td>
<td>3.7 (microns)</td>
</tr>
<tr>
<td>Carrier Evaporation Rate</td>
<td>(Ether = 1) &gt;1</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>ISO 10993 Tested and Certified</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Environmental

Duraglide dry lubricant formulas 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 registration 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 best results, apply a thin mist. The coating dries in seconds and can be seen on the part. A single treatment is adequate for most applications.

Contact MicroCare 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 and 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

Part #.................................................................MCC - DGF14A
Package Size....................................................397 g. / 14 oz. Aerosol.
12 cans/case

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Expertise in Action

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