

677

Dry Lubricant

TECHNICAL
CHESTERTON®
PRODUCTS

Description

When lubricated areas must be free of oil and oily stains, Chesterton® 677 Dry Lubricant is the product of choice. It is a clean, dry, multi-purpose, high-quality, PTFE-based powder lubricant for smooth, porous surfaces, which ensures nearly frictionless operation.

677 Dry Lubricant provides long-term lubrication for most surfaces, including metal, plastic, wood, leather, fiber, elastomers and glass. It is most effective on porous surfaces where it fills in open pores and becomes an integral part of the material's surface.* Since it contains no oil or oily substances, the lubricant will not attract dirt and dust from the work environment nor stain the parts to which it is applied. Quality control losses from stained or damaged products and packaging can thus be minimized.

A thin film of PTFE particles deposited by 677 Dry Lubricant provides an excellent non-stick coating. When used before assembling flange faces, the lubricant prevents gaskets from adhering and press-fits from sticking. It keeps hand saws and other tools from binding and will not oil-stain wood being cut. It is an ideal break-in lubricant for pump packings, providing initial lubrication until the packing lubricant works in during the critical high-friction period.

Composition

677 Dry Lubricant utilizes ultra-fine PTFE particles in a fast-evaporating solvent carrier. These particles give the product key advantages over other solid lubricants.

- Low coefficient of friction. One of the slipperiest substances known to science, this fluorocarbon telomer renders a surface practically friction-free. The lubricated parts glide smoothly and evenly over each other, reducing power consumption and equipment wear and tear.

Typical Physical Properties

Appearance	Dry, white powder
Base	Pure PTFE powder
Density	0,7 kg/l
Operating temperature limit	Up to 204°C
PTFE particles	Micron-sized

- Chemical inertness. PTFE particles are non-reactive and will not be attacked by acids, alkalis, oils and solvents. Since they are hydrophobic, the particles resist water washout and will not absorb and entrain moisture, a common problem among some other lubricants.

- Nonstaining, nonmetallic. Conventional dry lubricants can stain the parts to which they are applied. 677 Dry Lubricant's clean, white PTFE powder in a non-oily carrier eliminates this problem. Galvanic corrosion, sometimes a concern with metallic-based solid lubricants, is never a problem with 677 Dry Lubricant because it is nonmetallic.

The lubricant will not melt or freeze and is used both indoors and outdoors at temperatures as high as 204°C.** It is an extremely versatile, high-performance dry lubricant for any application requiring clean, oil-free and very slippery surfaces.

* For very long-term dry lubrication of nonporous surfaces, use Chesterton® 438 Teflon† Coating.

**Chesterton offers a full range of liquid, grease and dry lubricants for applications under extreme pressures and temperatures.

† DuPont's Registered Trademark

Applications

677 Dry Lubricant is used on sliding mechanisms, cables, tools, conveyors, and wherever else a dry-powder, non-oily lubricant is required up to 204°C. It works especially well as a break-in lubricant for pump shafts and valve stems just before installing packing. When sprayed on flange faces, the lubricant prevents gaskets from sticking during disassembly.

It is highly effective on light-duty gears, open shaft bearings, bolts, nuts and stuffing boxes. It prevents binding when applied to hand tools.

Features

- High-quality, multi-purpose, PTFE-powder lubricant
- Specifically designed for smooth, porous surfaces
- Dry, non-oily, non-greasy
- Clean, nonstaining
- Contains ultra-fine PTFE particles
- Slippery; low coefficient of friction
- Excellent chemical resistance
- Strong resistance to washout
- Will not absorb or hold moisture
- Withstands high and low temperatures

Benefits

- Reduce downtime, labor, maintenance costs
- Save the cost of replacement parts
- Prevent gaskets from adhering and parts from sticking
- Eliminate costs from torn gasketing, imperfect molded parts
- Prolong the life of machinery, parts, equipment
- Significantly reduce power consumption
- Thin coating with pinpoint spray means no product waste

Directions

Chesterton® 677 Dry Lubricant is available in pressurized, easy-to-use spray cans. Users need only apply a thin, uniform coating, so there is no waste. Test on a sample of the same material to ensure compatibility. When used on sticking surfaces, work the parts or equipment back and forth. Reapply as needed.

Safety

Before using this product, review the Material Safety Data Sheet (MSDS) or the appropriate safety sheet for your area.



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