



DRY FILM LUBRICANT (ALSO KNOWN AS SOLID FILM LUBRICANT)

Dry Film Lubricants are superb for use as dry, low friction coatings to reduce wear and prevent galling, fretting and seizure for aluminum and steel parts. Enhanced performance characteristics are gained when it comes to fighting corrosion, extending wear, decreasing friction and increasing release properties. In addition, Dry Film Lubricants are virtually unaffected by solvents, acids, oils, degreasers, aviation fuel and hydraulic fluid.

Pioneer Metal Finishing's Dry Film Lubricant Type I meet MIL-L-46010E, MIL-L-8937D and Aerospace standard AS-5272.

Dry Film Lubricant is available in Pioneer Minneapolis, MN and Monroe, MI.

General applications for Dry Film Lubricant include:

- Operation in a corrosive atmosphere
- Operation where fretting and/or galling is an issue (splines, joints, keyed bearings)
- Where operating pressures exceed load-bearing capacity of ordinary oils and greases
- Where permanent lubrication is required
- Where clean operation is required (dry film does not pick up contaminants)
- Operations where frequent disassembly is required (nuts, screws, and PVC molds)
- Where protective coating and sacrificial break in lubricant is needed
- Dry film lubricants have a wide and useful temperature range from 350° F to over 1000° F and their load carrying ability is high
- Dry films can conduct electricity or be used as insulators (Pioneer product offerings currently do not produce a conductive coating).

Other specific applications:



Automotive Applications	Safety systems, seating systems, door hardware, pistons, cylinders, hinge pins, plug valves, slide and followers, fasteners, lock nuts, plain bearings, rod end bearings, washers, shafts. Dry Film Lubricants provide outstanding corrosion protection.
Aerospace Applications	Jack screws, adjusting screws, threaded fasteners, self-tapping fasteners, thrust washers, gears, levers, bearings, shafts, studs, cams, cam followers, slides, valves, pistons, nuts, bolts. Dry Film Lubricants are designed to provide lubrication in extreme thermal environments and under extreme pressures often dealt with in the aircraft, missile, and spacecraft industries.
Mechanical Components	Hydraulic fittings & valve components. Dry Film Lubricants solve problems associated with wear, corrosion /chemical resistance, anti-seize, steam, extreme temperatures and lubrication.
Industrial Machinery & Equipment	Seals, clamps, and couplings. Overall resistance to wear and friction make dry film lubricants an excellent choice for tube bending, extruding, and die casting of aluminum and zinc.
Military & Defense	Solid film coatings/lubricants are applied to a variety of aircraft, weapons, vehicles, and delivery systems. Most meet tough government Mil specs for corrosion resistance. They also resist wear and act as an anti-seize agent, preventing many types of corrosion.

Call Pioneer to discuss your next dry film project or your next metal finishing job.