



Surface Enhancement Experts

# AquaGlide™

Hydrophilic Coating Series

## Coating Data Sheet

**Description:** AquaGlide™ is a group of specially formulated and applied hydrophilic (water loving) coatings developed to absorb water, saline solutions and bodily fluids, and to provide a low friction surface when hydrated. These coatings are bonded to metals, plastics and flexible or rubber substrates to provide low friction surface characteristics when in the presence of fluids.

No license fees for our coating service are required.

- Features and Properties:**
- Provides easy, low friction insertion and removal of devices.
  - Friction forces reduced, compared to dry friction, up to 95% when surface is hydrated.
  - Clear / translucent color to allow visible depth or markings on device.
  - Pigmented/tinted formulations available.
  - Adhesion optimized with specific formulations for different substrate requirements.
  - Low temperature bonding for heat sensitive substrates.
  - Reduce potential tissue damage and increase patient comfort.
  - Permanently bonded.
  - Custom colors and formulations available.

### Surface Solutions Group offers three specifically formulated AquaGlide™ hydrophilic coatings:

**AquaGlide-M for metal surfaces:** Most medical metals such as, stainless steel alloys and Nitinol, are coated with our family of hydrophilic coatings to provide water-absorbing properties, and to increase patient comfort of these inserted metal devices. Titanium, platinum, plated metals and many more are successfully processed.

**AquaGlide-R for rubber or flexible surfaces:** All types of rubber devices, tubing and guards are provided with a surface to provide low friction when moistened with water or saline solutions on the normally high friction, yet flexible rubber and synthetic rubber surfaces. Many flexible polymers including urethane, Pebax, buna-n, nitrile, nylon and other natural rubber compounds are successfully processed.

**AquaGlide-P for plastic surfaces:** Many plastic and filled or glass or fiber reinforced plastic surfaces of medical devices can have the low friction surface provided by a bonded hydrophilic coating. When moistened with water or a saline solution, the coated plastic surface adopts the hydrophilic properties of a true low friction surface. Many different types of plastic, including polyimide, polyamide and glass filled plastics are successfully processed.

**Specialty formulations and colors are available.**

- Application & Properties:**
- Dry film .0002”-.0004” or 0.005-0.0010mm
  - Transparent / translucent bonded film
  - Ultra accurate spray or dip processed
  - Low temperature cure formulations available
  - 510K assistance available
  - Biocompatible and antithrombogenic
  - Applied to existing designs of devices

The information contained in this coatings data sheet is based on our application of and work with these coatings. End use conditions and methods of use of these coatings which are beyond our control may modify these results. Before adopting our coatings for commercial use, the user should test and confirm the suitability of these coatings for each specific use. Additionally, our recommendations and suggestions for the application and use of our coatings are not a warranty that such application or use are free from infringement of any third party patent right. Technical support available for filing 510K submissions for device certification. Complete formation and composition analysis available for certification only. AquaGlide™ is a pending US Registered trademark of Innovatech, LLC, which used under license by Surface Solutions Group, LLC.



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