

## Coating Property

### Formula Safety

The coating formula demonstrates excellent biocompatibility, using non-irritating solvents and PVP (polyvinylpyrrolidone) as its primary component.

### Easy Customer Registration

With an FDA filing number, our coatings are widely registered and accepted by CE, CFDA, and various other global regulatory authorities.

### Optimal Balance of Lubricity and Durability

Our coatings provide an ideal balance between lubricity and durability, with performance adjustable through precise parameter control.

### High Flexibility

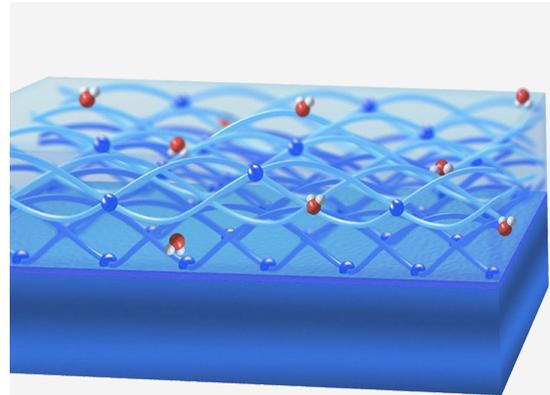
The coating maintains integrity under bending and curved-path applications without cracking or peeling.

### Low Particulate Release

Engineered for patient safety, our coatings demonstrate exceptionally low particulate release within regulatory standards, while maintaining superior lubricity and long-term durability.

### Sterilization Compatibility

Compatible with both ethylene oxide (EO) and electron beam (E-beam) sterilization methods.

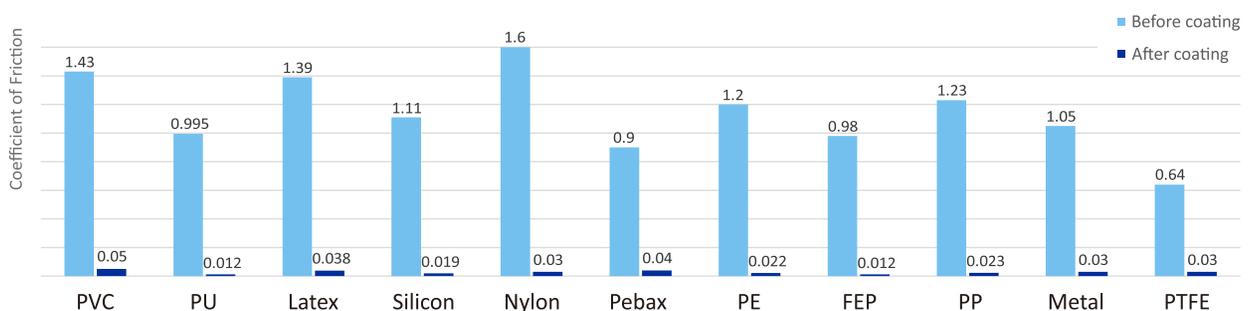


Our patented hydrophilic coating absorbs water to significantly reduce surface friction, enabling smoother device navigation through blood vessels. This minimizes abrasion between the device and vessel walls, ensuring optimal performance and patient safety.

## Applications

- Balloon Catheter
- Hydrophilic Guidewires
- PTCA Guidewires
- Guiding Catheter
- Ureteral Access Sheath
- Ureteral Stent
- Urinary Catheters
- Tracheal Intubation
- Microcatheter
- Suction Catheter
- Metal Spring Guidewires
- Hypotube Cutting Guidewires
- Silicone Drainage Tube
- Disposable Endoscopic Catheters
- Others

## Friction Coefficient Comparison: Coated vs. Uncoated Across Different Substrates



# Coating Equipment



## Hydrophilic Coating Equipment

**Production Capacity:** Capable of producing 200,000–300,000 units annually.

**Automation:** Fully automated coating and UV curing process ensures high consistency, precision, and repeatability.

**UV Curing System:** Integrated UV curing module delivers stable and reliable output for optimal coating performance.

**User-Friendly Interface:** Intuitive software allows easy programming and storage of coating parameters for repeatable results.

**Touchscreen Control:** Equipped with a full-color LED touchscreen for simplified operation and monitoring.

**Customizable Configurations:** System configurations can be tailored to meet specific customer or product requirements.



## Friction Testing System

**Precision Control:** High-precision closed-loop controller with ball screw drive ensures accurate control of vertical movement during testing.

**Accurate Force Measurement:** Measures frictional tension with a force range of 0–2000 grams for reliable data acquisition.

**Flexible Programmability:** Test parameters and reports can be easily saved and exported for analysis.

**PC-Controlled Operation:** Operated via a Windows-based PC interface, providing efficient and user-friendly test management.



## Automated High-throughput Coating System

**Fully Automated Process:** Incorporates automatic loading, dipping, UV curing, and unloading for continuous operation.

**High Productivity:** Designed for high-volume manufacturing, with a capacity of up to one million parts per year.

**Advanced UV Technology:** Features imported Dymax UV lamp system for consistent and powerful curing performance.

**Automatic Straightening:** Integrated straightening function ensures precision during the coating process.

**Touchscreen Control:** Color LED touchscreen enables intuitive setup and real-time monitoring.

**Minimal Staffing:** Requires only one operator to manage the entire automated process.

