

FACTS ABOUT FLUOROCARB™ COATINGS

FLUOROCARB COATINGS are manufactured from fluorocarbon monomers by AMT's proprietary plasma polymerization process. During the manufacturing process, monomeric vapors are converted into covalently bonded polymeric coatings directly on the surface of substrates. The resulting FLUOROCARB COATINGS are ultrathin, chemically resistant, highly hydrophobic, and biocompatible.

AMT's FLUOROCARB COATINGS have low coefficients of friction; they won't dissolve in organic solvents, yet, unlike most PTFE spray or liquid dispersion type coatings, AMT's FLUOROCARB COATINGS Won't peel off the substrate tubing/fiber or filament.

Due to their hydrophobic nature, nanometer thickness, biomedical compatibility, flexibility and excellent thermal and chemical stability, AMT's FLUOROCARB COATINGS are finding numerous applications in biomaterial and pharmaceutical areas. They are also usable for waterproofing of mobile and other electronic devices.

SIZE CAPABILITIES

Choose from the full range of substrate lengths and diameters available from any supplier of tubing, fibers, catheters and other substrates.

EXTENSIVE THERMAL PROTECTION

The thermal resistance of FLUOROCARB coatings generally exceeds the thermal resistance of the substrate.

IDEAL FOR MEDICAL APPLICATIONS

Maintains substrate dimension and mechanical performance withstands sterilization by

- Autoclave
- Ethylene oxide

SLIPPERY SURFACE

- Removes silicones tack and enhances catheter lubricity

CHEMICALLY STABLE COATINGS

- Resists attack by organic and inorganic solvents

ADHESIVELY BONDABLE

- Bonds to commonly used adhesives through mechanical interlocking.

CHEMICALLY BONDED TO SUBSTRATES

- Applied uniformly to entire surface
- Covalently bonded
- Does not strip or peel
- Can be applied to polyurethanes, silicones, fluoropolymers, polyamides, polyimides, and other thermoplastic elastomers such as PVC, polyesters and polycarbonates

BIOCOMPATIBILITY

Generally suitable for invasive medical applications:

1. USP Class VI Biological Test for Plastic Materials
 - SYSTEMIC INJECTION TEST
 - INTRACUTANEOUS TEST
 - 14-DAY IMPLANTATION TEST
2. USP 14-DAY INTRAMUSCULAR IMPLANTATION TEST
3. CYTOTOXICITY EVALUATION/MEM Elution
4. Human Red Blood Cell HEMOLYSIS TEST



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