



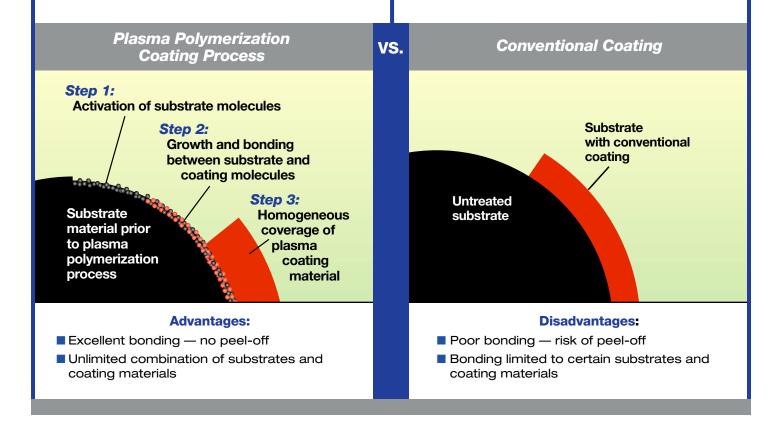
Durable and Cost-Efficient Industrial Polymer and Metal Coatings

Unmatched Performance and Wide Variety of Industrial Coatings

A worldwide network of research and development resources assures the latest technology for customized cost-efficient solutions to coat fibers, tubing, wire and small precision components.

AMT's innovative polymer and metal coatings and alloys are manufactured in a unique plasma coating process. Monomeric vapors are converted into covalently bonded coatings directly on the surface of passing tubings/fibers or small precision components to meet your specific surface properties improvement goals. This technology assures extreme durability of coatings — **no peel-off** — and no change of surface properties on aging. A wide variety of surface property improvement goals can be met such as:

- Reduction of friction/enhancement of slip
- Enhancement of bonding capabilities
- **Antibacterial properties** effective against microorganisms and viruses
- Catalytic activity
- Change of electrical properties
- Resistance to organic solvents
- Well-bondable to a wide variety of materials such as polyurethanes, silicones, fluoropolymers, polyamides, polyimides, PVC, polyesters and polycarbonates
- Flexible micro- and macro-bend strength
- Prevention of corrosion
- Excellent thermal and chemical stability



Industrial Applications

AMT's innovative polymer & metal coatings, alloys and metal blends can be applied on microporous ceramic tubes, polymeric fibers and films, ceramic powders, aerogels, zeolites and other substrates.

The **enhanced surface properties** of such substrates provide unique solutions in applications such as fuel cells, chemical syntheses, microreactors, chromatographic separations and sensors.

- Platinum and silver coated surfaces with antimicrobial properties can be used in numerous applications such as air or water treatment.
- Noble metal coated ceramic and polymeric membranes assure **high catalytic activity** due to increased surface area. Novel combinatorial based metal blends and alloy coatings can be tailored for specific catalytic applications on a nanometric scale.
- Proprietary plasma treatment of fluoropolymers or other difficult-to-bond materials can provide long-term solutions for bonding problems.

Rapid Development, Prototyping and Scale-Up for Customized Solutions

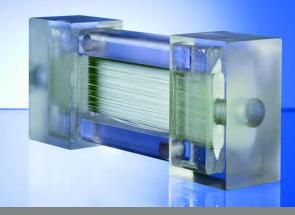
AMT leverages its international research and development resources to identify and rapidly develop the **best industrial coating technology** for your specific needs. AMT has extensive expertise in supporting industrial product development programs including design and engineering of scale-up equipment for tailored coating solutions.



Turn-Key Coating Solutions Available to Reduce Your Manufacturing Costs

AMT offers a wide variety of turn-key coating solutions and is well-known for its cost-efficient large scale coating processes. Select your turn-key solution and benefit from the resulting savings.







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