

# PTFE Natural™ Fluoropolymer Coated Fine Wire

Only by Applied Plastics Co., Inc.

## Applied Plastics Experience and Expertise

Founded in 1954, Applied Plastics is one of the original licensed industrial applicators of DuPont Teflon® finishes in the country and we were one of the pioneers in the development of electrostatically applied powder coatings. Over the years, we have perfected the science and art of producing PTFE Natural™ Fluoropolymer coated forming mandrels and fine wire in virtually unlimited lengths. We welcome the opportunity to customize a product for your application.

**Call 781-762-1881 for information and a prompt quotation.**



Applied Plastics coats fine wire with PTFE Natural Fluoropolymer to create forming mandrels that increase the output of small-diameter tubing, formed rubber bladders, and similar products.

## Key Features

- Anti-stick
- Non-flaking
- Close tolerances
- Chemically inert
- Bio-compatibility
- Abrasion resistant
- Chemical resistant
- Corrosion resistant

## Proprietary Technology

At Applied Plastics, our proprietary technology lets us coat fine wire with a thin, smooth coating of PTFE Natural™ Fluoropolymer to achieve optimum release or slip properties. Our specialty application for this technology is coating stainless steel or nitinol forming mandrels featuring a uniform, precise, non-flaking finish. These mandrels provide a smooth, slippery surface that is chemically inert and withstands up to 288°C operating temperatures. We also apply this superior technology to hypo-tubing.

## PTFE Natural™ Fluoropolymer Mandrels

Stainless steel or nitinol forming mandrels feature a uniform PTFE Natural™ Fluoropolymer coating to achieve a 0.05 coefficient of friction, enabling manufacturers to increase the output of extruded small-diameter tubing, formed rubber bladders, and similar products. Providing a superior bond, the wire is grit-blasted before precisely applying the release coatings in thicknesses from 0.00127mm to 0.020mm onto stainless steel or nitinol wire from 0.127mm to 1.52mm dia. Forming mandrels are tested in accordance with ASTM-1894.



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