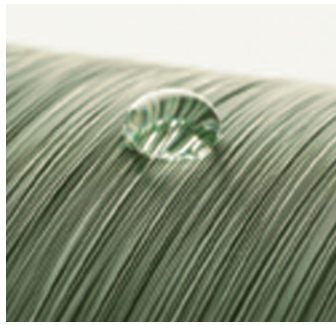


# PTFE Coatings



Fort Wayne Metals provides PTFE<sup>1</sup> based coatings and coating compositions on wires for a variety of medical applications. LubriSkin™ and DuraSkin™<sup>2</sup> PTFE dispersion coatings are applied to medical wires to

increase lubricity and chemical resistance. The proprietary spool to spool process employed delivers a lower coefficient of friction than spray coating techniques. LubriSkin is the preferred coating for coiling wire applications and mandrels. DuraSkin is recommended for coating SLT<sup>®</sup> wire, Fort Wayne Metals' straight linear one-to-one torque wire, which is used for PTCA guidewires and stylets.

## LubriSkin

This proprietary coating process produces a smooth, uniform coated wire for the production of guidewires. This process is unique in that the wire is coated before it is coiled. The resulting precoated guidewire has a consistent LubriSkin coating, unlike conventional spray coated guidewires that often encounter cracking and flaking of the coating.

The LubriSkin coating is available in a variety of colors and on round or flat wire.



Competition spray coated coil



LubriSkin precoated coil

## DuraSkin

Our proprietary spool-to-spool process provides extremely uniform coating for medical device components. With excellent control over the coating thickness, we are able to guarantee tight tolerances.

Typical products include dead-straight stylets for PTCA guidewires, guidewire cores and catheter stylets using our SLT wire. This wire provides excellent one-to-one torque properties.

These PTFE coatings can be applied to our stainless steel range of alloys, our super alloys and to our Nitinol wires without compromising their elastic properties.

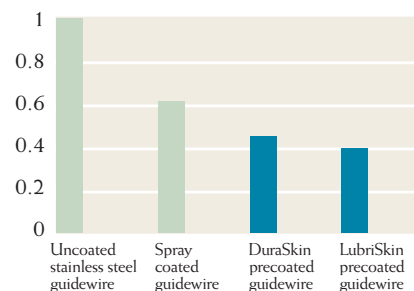
Please note our proprietary coating process increases the tensile strength of non-aged 304V by approximately 20ksi (140 MPa).

PTFE Coatings	DuraSkin	LubriSkin
Coating thickness	Standard: 4 - 10 µm (0.00016 - 0.00039")	Standard: 4 - 10 µm (0.00016 - 0.00039")
Colors	Green, Gray, Blue, Black, White, Clear	Green, other colors on request
Primary Uses	Corewires; (PTCA) Extrusion Mandrel Wire	Coiling Wire, Bonding Mandrels, Release Mandrels
Supplied	Straightened & Cut Lengths, Spooled	Straightened & Cut Lengths, Spooled
Gamma Stable	Yes	No
ETO sterilization	Yes	Yes
Biocompatibility	For invasive techniques, but not for permanent human implants	For invasive techniques, but not for permanent human implants
Heat Stability	Up to 195° C (390° F).	Up to 205° C (400° F).
Chemical Resistance	Sensitive to some solvents like NMP, acetone, MEK etc.	Good - excellent
Relative friction (uncoated SS = 1)	0.45	0.40
Dielectric Strength	Not intended for electrical insulation	Not intended for electrical insulation

<sup>1</sup>PTFE; Polytetrafluoroethylene is a synthetic fluoropolymer

<sup>2</sup>LubriSkin and DuraSkin are registered trademarks of MCTec BV of Van Coehoornstraat 7, 5916 PH, Venlo, The Netherlands

Guidewire Relative Friction



The graph above shows relative physical resistance of coated wire passing through human tissue according to coating type.