KT Medical
ISO 13485:2016

T-GLIDE™ PTFE Coated Wire

General Information

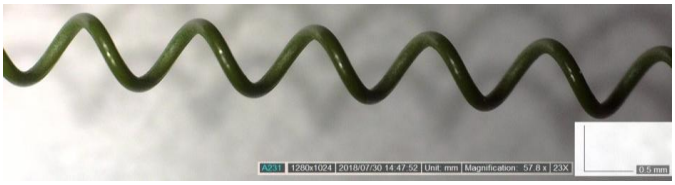
PTFE coated wire has been used widely in medical guide wire applications. *Kuangtai Metal* utilizes specialized coating technology to apply a strong, adherent, thin and uniform PTFE film on the wire. The resultant PTFE coating provides a low friction coefficient and added chemical resistance to form a smooth, lubricant surface for precision coiling and mandrel wires.

Base Material

MATERIAL	CHEMICAL COMPOSITIONS & MECHANICAL PROPERTIES
Stainless Steel: 304/304V, 302/302V	Conforms to ASTM A313 standard
Nitinol	Conforms to ASTM F2063 tandard

Coating Material

- ❑ IUPAC name : poly(1,1,2,2-tetrafluoroethylene)
- ❑ Chemical Formula : $(C_2F_4)_n$
- ❑ Melting point : 600K ; 327 ℃
- ❑ Density : 0.079 lb/in^3 ;2.2 g/cm^3
- ❑ Static friction coefficient : 0.08~0.14
- ❑ Young's modulus @R.T : 0.5 GPa
- ❑ Conforms to ASTM D3359-17 (coating adhesion test) and ASTM D1894 (friction test) standards



Spring coils made with T-Glide wire - strong coating adhesion and scratch resistance observed.

Geometric & Package Options

Supply Form	Available Size (wire dia.)	Coating Thickness	Coating Color	Package
Wound on spool	.004" – .012" (0.1 – 0.3 mm)	3 – 7 μm	Green or Blue	Welding wire spool (D-300)
Cut length	.008" - .020" (0.2 – 0.5 mm)	5 – 10 μm	Green or Blue	Plastic or paper tube

* Customized specifications are also available upon request.

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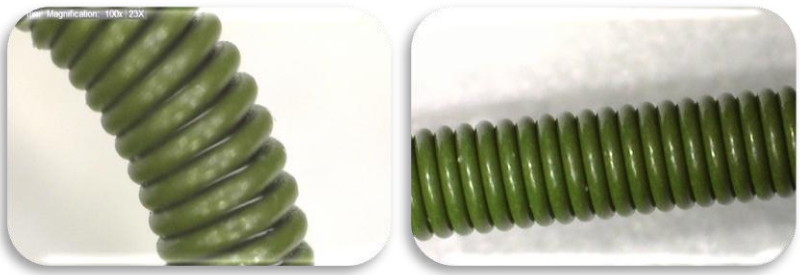
Advantages of Pre-coated Wire

T-GLIDE is the stainless steel wire coated with PTFE using KT's state-of-the-art coating technology. This improves the coating adhesion and coverage remarkably, when comparing with the spray-coated wire.

Adopting T-GLIDE in your design of medical devices will make it possible to achieve:

* **Smooth surface**
  ➔ easy advancement and tracking
* **Increased lubricity**
  ➔ better catheter compatibility
* **Flaking resistance**
  ➔ uncompromised safety
* **Enhanced durability**
  ➔ robust performance even after multiple catheter exchanges

Spring coil wound with T-GLIDE wire:
Pre-coating on the wire before coiling



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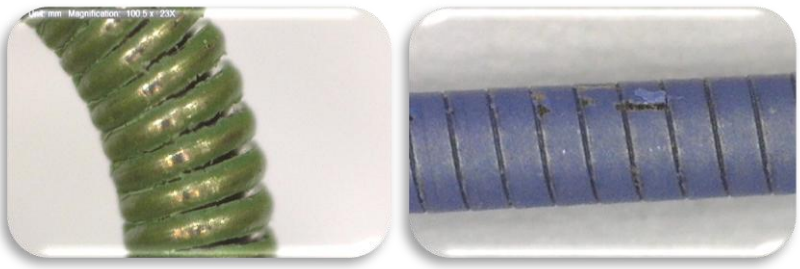
Spray-coated coil:
Coating after coiling



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