

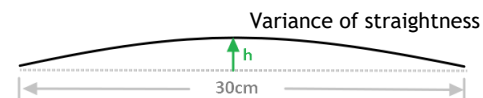
T-STRAIGHT[®] Pre-Straightened Wire

General Information

T-STRAIGHT is the pre-straightened wire developed by *Kuangtai Metal* with its leading wire processing technologies. It is widely used on endoscopic devices, catheter guide wires, tubing mandrels, EMG needles, and many other medical devices. Its superior strength, elasticity and straightness help to reduce the process cost by minimizing prep operations while satisfying the requirements for critical applications

Types & Applications

There are four types of T-STRAIGHT wire of different straightness and mechanical properties that users can choose from depending on their applications and product needs:



T-STRAIGHT

•Typically used for staple wire, braiding mandrels, and dental probes. This product reduces setup time and eliminates the need to rotary or mechanically straighten before downstream processes.

- Camber(h) < 9mm/30cm length
- Supplied as wound on spool

T-STRAIGHT Plus

•With no need to adjust cast or helix in secondary processing, T-STRAIGHT Plus has been used for mandrel wire, needle and staple wire, stylet wire, point coiling, and micro needle applications.

- Camber(h) < 3mm/30cm length
- Supplied as wound on spool or cut to length

T-STRAIGHT Super

•This material is designed for removing up to 90% of cross-sectional area by taper grinding without requiring heat treatment and problems such as rippling and pig tailing. Typical applications range from micro needles, orthodontics, and suture needles to guide wires, endoscopes, and embolic filters.

- Meets ASTM F2819 standards
- Camber(h) < 1mm/30cm length
- Supplied as wound on spool or cut to length

T-STRAIGHT Ultra

•T-STRAIGHT Ultra is designed for deep taper grinding up to 95% without requiring additional heat treatment. It features excellent 1:1 torque response, which makes it a popular choice for neurovascular guide wire, steerable PTCA, endoscopes, and other precision applications.

- Meets ASTM F2819 standards
- Camber(h) < 0.25mm/30cm length
- Supplied as cut-length only

T-STRAIGHT® Pre-Straightened Wire

Materials

- ◆ **Available grades:** stainless steel 304/304V, 302/302V
(conforms to ASTM A313 unless otherwise designated)

- ◆ **Chemical Composition**

UNS Designation ^A	Type	Composition, ^B %									
		Carbon	Manganese	Phosphorus	Sulfur	Silicon	Chromium	Nickel	Molybdenum	Nitrogen	Other Elements
S 30200	302	0.12	2.00	0.045	0.030	1.00	17.0-19.0	8.0-10.0		0.10	
S 30400	304	0.08	2.00	0.045	0.030	1.00	18.0-20.0	8.0-10.5		0.10	

- ◆ **Mechanical Properties**

Tensile Strength	Yield Strength	Elongation
330 - 360 ksi (2250 - 2500 Mpa)	200 ksi min. (1350 Mpa min.)	1.5% - 4.0%

Sizes & Packages

Type	Wire Straightness (camber per length)	Wire Dia.	Supply Form & Package
T-STRAIGHT®	.36" / 12" max. (9mm / 300mm)	.002" - .036" (0.05mm - 0.9mm)	Wound on spool: DIN 160 / DIN 300 (welding wire spool)
T-STRAIGHT® Plus	.12" / 12" max. (3mm / 300mm)	.004" - .036" (0.1mm - 0.9mm)	
T-STRAIGHT® Super	.04" / 12" max. (1mm / 300mm)	.004" - .032" (0.1mm - 0.8mm)	Wound on spool: DIN 300 (welding wire spool) / SH 460K reel
T-STRAIGHT® Ultra	.01" / 12" max. (0.25mm / 300mm)	.008" - .036" (0.2mm - 0.9mm)	Cut length: plastic or paper tube

* Customized specifications are also available upon request.

Please send in your inquiries to:
medsales@kuangtai.com

<http://www.kuangtai.com>

KUANGTAI METAL INDUSTRIAL Co., Ltd.

No. 8 Luke 3rd Rd., Luchu Dist.,

Kaohsiung 82151,

Taiwan