

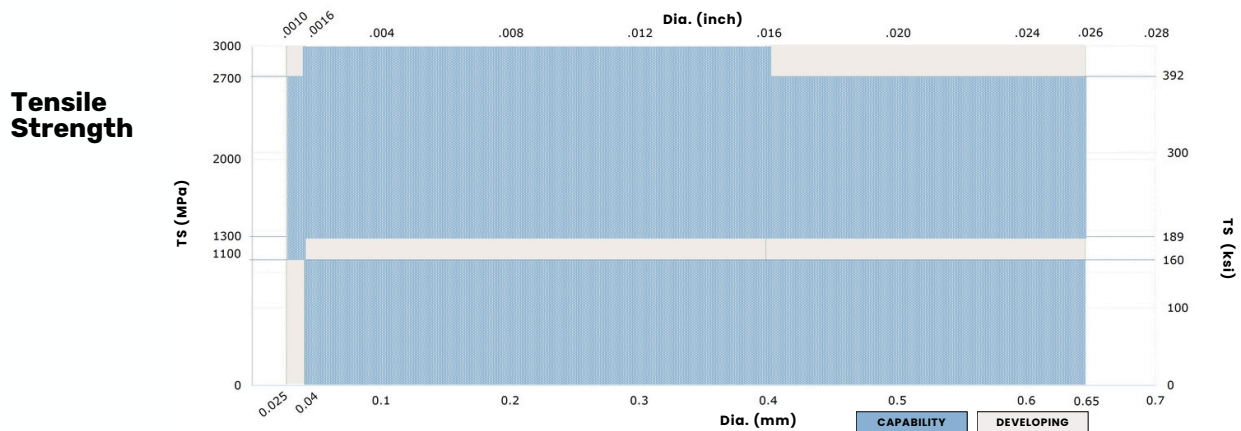
Ultra Fine Wire

Ultra fine stainless steel wire is utilized across diverse industries, encompassing medical devices, automobiles, aircraft, electrical products and leisure goods. It serves various purposes such as spring coil, wire rope, wire mesh; weaving, braiding and knitting applications. KT Medical offers a wide range of diameters and customized tensile strength to meet specific requirements.

SPECIFICATION

Wire Diameter 0.025mm - 0.65mm (.001" - .026")

- for OD 0.025-0.04mm (.001" - .0016"),
1100MPa ≤ TS ≤ 2700MPa (160ksi ≤ TS ≤ 392ksi)
- for OD 0.04-0.4mm (.0016" - .016")
0 ≤ TS ≤ 1100MPa, 1300MPa ≤ TS ≤ 3000MPa (0 ≤ TS ≤ 160ksi, 189ksi ≤ TS ≤ 435ksi)
- for OD 0.4-0.65mm (.016" - .026")
0 ≤ TS ≤ 1100MPa, 1300MPa ≤ TS ≤ 2700MPa (0 ≤ TS ≤ 160ksi, 189ksi ≤ TS ≤ 392ksi)



Package Wound on Spool (DIN Series, D300)

WIRE DIAMETER & TOLERANCE

Wire Dia.	Tolerance	Out of Roundness
0.025mm-0.040mm (.0010" - .0015")	±0.0015mm (± .00006")	0.0015mm (.00006") Max.
0.041mm-0.070mm (.0016" - .0027")	±0.002mm (± .00008")	0.002mm (.00008") Max.
0.071mm-0.10mm (.0028" - .0039")	±0.003mm (± .00012")	0.003mm (.00012") Max.
0.101mm-0.160mm (.0040" - .0063")	±0.004mm (± .00016")	0.004mm (.00016") Max.
0.161mm-0.250mm (.0064" - .0098")	±0.006mm (± .00024")	0.006mm (.00024") Max.
0.251mm-0.40mm (.0099" - .0157")	±0.008mm (± .00031")	0.008mm (.00031") Max.
0.401mm-0.70mm (.0158" - .0276")	±0.010mm (± .00039")	0.010mm (.00039") Max.



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CHEMICAL COMPOSITION

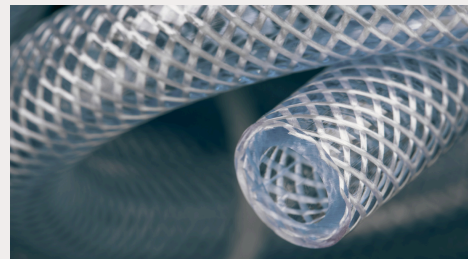
Stainless Steel Grade	Chemical Composition (%)								
	C	Si	Mn	P	S	Ni	Cr	Mo	Others
302	≤0.15	≤1.0	≤2.0	≤0.045	≤0.03	8.0-10.0	17.0-19.0	-	-
304	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	8.0-10.5	18.0-20.0	-	-
304V	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	8.0-10.5	18.0-20.0	-	-
304L	≤0.03	≤1.0	≤2.0	≤0.045	≤0.03	9.0-13.0	18.0-20.0	-	-
304N	≤0.08	≤1.0	≤2.5	≤0.045	≤0.03	7.0-10.5	18.0-20.0	-	N 0.10-0.25
316	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	10.0-14.0	16.0-18.0	2.0-3.0	-
316L	≤0.03	≤1.0	≤2.0	≤0.045	≤0.03	12.0-15.0	16.0-18.0	2.0-3.0	-
316N	≤0.08	≤1.0	≤2.0	≤0.045	≤0.03	10.0-14.0	16.0-18.0	2.0-3.0	N 0.10-0.22
316LVM	≤0.03	≤0.75	≤2.0	≤0.025	≤0.01	13.0-15.0	17.0-19.0	2.25-3.0	Cu ≤0.50

According to ASTM A313, ASTM F138, JIS G4314, JIS G4309 standards.

Ultra Fine Braiding Wires

Application Example

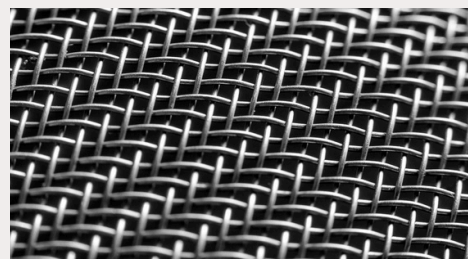
- Catheter tube reinforcing braid
- Endoscope reinforcing braid, etc.



Ultra Fine Weaving & Knitting Wires

Application Example

- Printing fine screens
- Filter meshes
- Anti-cutting textiles
- Electromagnetic wave shields, etc.



Specification Example

Grade	Wire Dia.	Dia. Tolerance	TS	Elongation
304	0.025mm-0.040mm (.0010"- .0015")	±0.001mm (± .00004")	880-1130MPa (128-164ksi)	20 min.
	0.041mm-0.050mm (.0016"- .0019")	±0.001mm (± .00004")		
	0.051mm-0.070mm (.0020"- .0028")	±0.002mm (± .00008")		
316	0.025mm-0.050mm (.0010"- .0019")	±0.001mm (± .00004")	650-900MPa (94-131ksi)	20 min.
	0.051mm-0.070mm (.0020"- .0028")	±0.002mm (± .00008")		