

Nitinol (Ni-Ti) Ultra-Thin Wires

New!

2E-GISI-26-02

Furukawa has been manufacturing materials for medical devices for over 30 years. Utilizing our strength in Nitinol melting technology that suppresses inclusions, we are now challenging the ultra-fine wire domain. We have now achieved the capability to manufacture wire diameters down to 0.015mm(0.00059").

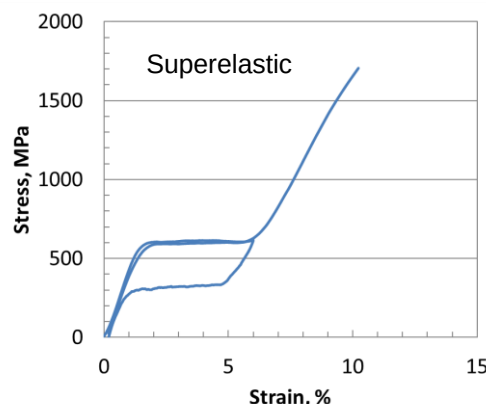
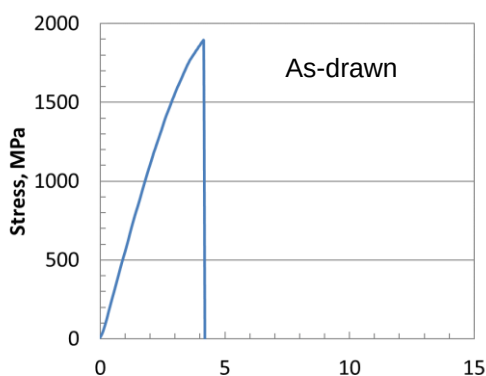
By managing the entire process from melting to processing, we ensure stable mechanical properties even at these minute diameters. We provide these materials to support high-quality next-generation medical devices such as micro stents, coils, and catheter braided components.

Typical Dimensions

Wire diameter		Surface	Condition
(mm)	(inch)		
0.015 ~ 0.050 ± 0.0025	0.00059 ~ 0.00197 ± 0.00010	Oxide-free or Thinoxide	Straight annealed or As-drawn
~ 0.080 ± 0.0040	~ 0.00315 ± 0.00016		
~ 0.100 ± 0.0050	~ 0.00394 ± 0.00020		

Mechanical Properties & others

Condition	Upper Plateau Stress at 3%		PS after 6%	Tensile strength		Elongation
	(MPa)	(Kpsi)	(%)	(MPa)	(Kpsi)	(%)
As-drawn	-	-	-	1450 ~	211 ~	> 4
Superelastic	450 ~ 650	65 ~ 94	< 0.5	1250 ~		> 10

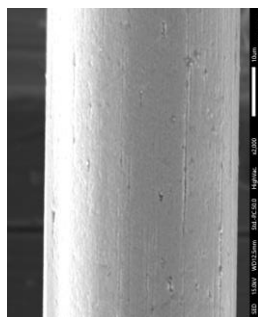


Material Specification

- NT-N wire
- Ni-Ti binary alloy
- Ingot Af (DSC) : 0 +/-10°C
- Comply with ASTM F2063-18.

Wire appearance

Furukawa



Company-A

