



We Deliver Precision®

ULBRICH.COM

ULBRICH SPECIALTY WIRE PRODUCTS

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CAPABILITY SHEET

Fine Nitinol: Flat & Round Wire

BASE MATERIAL

ASPECT RATIO

Standard Binary per ASTM F2063 (NiTi 1)	Chrome Doped	Min Thickness	Max Thickness
		2:1 @ 0.0010" [inch]	10:1 @ 0.0025" [inch]

Dimensions & Size Tolerances *(Standard tolerances - please ask for your custom requirement)*

FLAT WIRE

	NOMINAL VALUE		TOLERANCE	
	Minimum	Maximum	Minimum	Maximum
THICKNESS	0.0003" [inch]	0.0060" [inch]	+/- 0.0001" [inch]	+/- 0.0006" [inch]
WIDTH	0.0015" [inch]	0.0200" [inch]	+/- 0.0002" [inch]	+/- 0.0020" [inch]

ROUND WIRE

	NOMINAL VALUE		TOLERANCE	
	Minimum	Maximum		
DIAMETER	0.0007" [inch]	0.0080" [inch]	0.0020" and under	+/- 0.00010" [inch]
			0.0021" to 0.0050"	+/- 0.00015" [inch]
			0.0051 and above	+/- 0.00020" [inch]

Typical Mechanical Properties of Nitinol

	TYPICAL AS DRAWN (AD)		TYPICAL STRAIGHT ANNEALED (SE)	
	UTS (ksi)	Elongation (%)	UTS (ksi)	Elongation (%)
NITI 1	200 Min	4% Min	180 Min	10% Min
CHROME DOPED	210 Min	4% Min	180 Min	10% Min

Packaging *(Our machinery can adapt to most custom spools upon request)*

SPOOL TYPE	DIMENSIONS
30mm Steeger	1.57" flange x 1.40" width x 1.18" barrel x 0.42" bore
26mm Steeger	1.69" flange x 1.40" width x 1.02" barrel x 0.42" bore
15mm Steeger	1.57" flange x 1.40" width x 0.59" barrel x 0.42" bore
Wardwell	2.60" flange x 3.25" width x 0.74" barrel x 0.657" bore
NEB	1.32" flange x 3.95" width x 1.37" barrel x 0.33" bore
DIN 100	3.94" flange x 2.52" width x 2.48" barrel x 0.63" bore
DIN 125	4.92" flange x 4.92" width x 3.15" barrel x 0.63" bore
Bulk Spools	Various

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