



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	<b>Min Thickness</b>	<b>Max Thickness</b>
		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
<b>THICKNESS</b>	0.0003" [inch]	0.0060" [inch]	+/- 0.0001" [inch]	+/- 0.0006" [inch]
<b>WIDTH</b>	0.0015" [inch]	0.0200" [inch]	+/- 0.0002" [inch]	+/- 0.0020" [inch]

**ROUND WIRE**

	NOMINAL VALUE		TOLERANCE	
	Minimum	Maximum		
<b>DIAMETER</b>	0.0007" [inch]	0.0230" [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 (%)
<b>NITI 1</b>	200 Min	4% Min	180 Min	10% Min
<b>CHROME DOPED</b>	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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