



We Deliver Precision®

ULBRICH.COM

ULBRICH SPECIALTY WIRE PRODUCTS

692 Plant Road, Westminster, SC 29693

(864) 647-6087

Fine Nitinol: Flat & Round Wire

Base Material

Standard Binary per ASTM F2063 (NiTi 1)	Chrome Doped
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Aspect Ratio

Minimum	Maximum
2:1	40:1

Typical Surface Finish Offerings

Black Oxide	Light Oxide	Oxide Free
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Dimensions & Size Tolerances (Standard tolerances - please ask for your custom requirement)

FLAT WIRE

Thickness Width	Nominal Value		Tolerance	
	Minimum	Maximum	Minimum	Maximum
	0.0003"	0.015"	+/- 0.0001"	+/- 0.001"
	0.0015"	0.150"	+/- 0.0002"	+/- 0.005"

ROUND WIRE

Diameter	Nominal Value		Tolerance	
	Minimum	Maximum		
	0.0007"	0.025"	0.0020" and under	+/- 0.00010"
			0.0021" to 0.0050"	+/- 0.00015"
			0.0051" and above	+/- 0.00020"

Typical Mechanical Properties of Nitinol (Size dependent)

NITI 1 Chrome Doped	Typical As Drawn (Ad)		Typical Straight Annealed (Se)	
	UTS (ksi)	Elongation (%)	UTS (ksi)	Elongation (%)
	200 Min	4% Min	180 Min	10% Min
	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
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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