

# HM Wire International, Inc.

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## Common Tensile Strength Ranges and Hardness by Stainless Steel Type

Size and Hardness	TYPE 302	TYPE 304	TYPE 316	TYPE 430
<b>AWG 44 - 40 0.002" - 0.030"</b>	<b>PSI</b>	<b>PSI</b>	<b>PSI</b>	<b>PSI</b>
Dead Soft Annealed	90,000 - 110,000	90,000 - 110,000	75,000 - 95,000	75,000 - 85,000
Annealed	100,000 - 135,000	100,000 - 135,000	90,000 - 110,000	85,000 - 95,000
¼ Hard	140,000 - 190,000	140,000 - 175,000	115,000 - 140,000	90,000 - 110,000
½ Hard	190,000 - 240,000	180,000 - 215,000	145,000 - 170,000	110,000 - 130,000
¾ Hard	240,000 - 290,000	220,000 - 265,000	175,000 - 200,000	130,000 - 150,000
Full Hard / Spring Temper	290,000 - 360,000	270,000 - 350,000	205,000 - 240,000	150,000 - 200,000
<b>AWG 40 - 28 0.030" - 0.125"</b>				
Dead Soft Annealed	85,000 - 105,000	85,000 - 105,000	85,000 - 100,000	75,000 - 85,000
Annealed	95,000 - 115,000	95,000 - 115,000	95,000 - 115,000	85,000 - 95,000
¼ Hard	120,000 - 160,000	120,000 - 155,000	120,000 - 145,000	90,000 - 100,000
½ Hard	165,000 - 230,000	160,000 - 210,000	150,000 - 180,000	110,000 - 130,000
¾ Hard	195,000 - 270,000	190,000 - 255,000	185,000 - 225,000	130,000 - 150,000
Full Hard / Spring Temper	230,000 - 315,000	225,000 - 300,000	215,000 - 270,000	140,000 - 170,000
<b>AWG 28 - 22 0.125" - 0.250"</b>				
Dead Soft Annealed	75,000 - 95,000	75,000 - 95,000	75,000 - 95,000	70,000 - 90,000
Annealed	90,000 - 110,000	90,000 - 110,000	90,000 - 110,000	70,000 - 90,000
¼ Hard	115,000 - 140,000	115,000 - 140,000	115,000 - 130,000	90,000 - 105,000
½ Hard	145,000 - 170,000	145,000 - 170,000	135,000 - 155,000	105,000 - 120,000
¾ Hard	175,000 - 200,000	175,000 - 200,000	160,000 - 185,000	120,000 - 140,000
Full Hard / Spring Temper	205,000 - 240,000	205,000 - 240,000	190,000 - 220,000	130,000 - 145,000

\*\*To be used as a guideline only