

Specializing in Quality Stainless Steel Wire

TENSILE STRENGTHS OF COMMON STAINLESS STEEL GRADES

SIZES AND CONDITIONS	302	304	305	316-317	321	347	Inconel 600	Monel 400	410	430
.005-.030"									.005-.030"	
Annealed	100-130,000	100-130,000	100-130,000	95-130,000	105-135,000	94-130,000	100-120,000	70-85,000	75-90,000	70-90,000
1/4 Hard	140-190,000	140-175,000	130-165,000	130-175,000	160-200,000	130-170,000	120-145,000	90-110,000	95-110,000	90-110,000
1/2 Hard	190-240,000	180-215,000	165-200,000	175-210,000	200-230,000	170-205,000	145-165,000	110-140,000	115-135,000	110-130,000
3/4 Hard	240-290,000	220-265,000	200-250,000	210-235,000	230-270,000	205-230,000	165-185,000	140-160,000	140-160,000	130-150,000
Full Hard	290-360,000	270-350,000	230-280,000	235-275,000	270-340,000	230-275,000	185-215,000	170-210,000	180-200,000	150-200,000
.031-.125"									.031-.125"	
Annealed	95-115,000	95-115,000	95-115,000	95-115,000	95-115,000	95-115,000	90-110,000	70-80,000	75-90,000	85-100,000
1/4 Hard	130-160,000	120-155,000	135-160,000	130-170,000	130-160,000	130-160,000	110-130,000	80-100,000	90-105,000	105-120,000
1/2 Hard	165-230,000	160-210,000	150-210,000	165-205,000	160-200,000	160-200,000	130-150,000	100-130,000	110-130,000	115-130,000
3/4 Hard	195-260,000	190-255,000	180-230,000	205-235,000	200-235,000	200-230,000	150-180,000	110-150,000	135-155,000	120-140,000
Full Hard	230-360,000	225-300,000	210-280,000	230-275,000	235-275,000	230-275,000	175-210,000	140-180,000	170-200,000	130-160,000
.125-.250"									.125-.250"	
Annealed	90-115,000	90-110,000	90-105,000	85-105,000	95-105,000	85-105,000	90-105,000	65-79,000	75-85,000	75-90,000
1/4 Hard	120-140,000	115-140,000	120-140,000	110-130,000	120-140,000	110-130,000	110-130,000	80-100,000	90-105,000	95-100,000
1/2 Hard	145-170,000	145-170,000	145-170,000	125-155,000	145-170,000	125-155,000	130-150,000	100-130,000	110-130,000	100-115,000
3/4 Hard	170-200,000	175-200,000	170-200,000	140-180,000	170-200,000	140-180,000	150-170,000	110-140,000	135-155,000	110-125,000
Full Hard	190-230,000	200-240,000	190-230,000	160-190,000	190-230,000	160-190,000	160-190,000	120-150,000	170-195,000	125-140,000

SPECIFY WHEN ORDERING -

Size - Specify diameter either decimal of inch or metric w/desired tolerances.

Quantity - Specify weight in pounds or tons.

Chemistry - Specify by AISI Grade # and if necessary special chemistry requirements.

Physical Properties - Specify all properties required, tensile strength, yield strength, elongation, bend tests and permeability.

Finish - Specify coatings and surface.

Packaging - Specify coils, spools and straight and cut lengths with desired tolerances.