



## Hot Rolled Rounds

M1020 / ASTM A-36

Size	Length	WT / FT	WT / Length
1/4"	20'	0.167	3.34
5/16"	20'	0.261	5.22
3/8"	20'	0.376	7.52
7/16"	20'	0.511	10.22
1/2"	20'	0.668	13.36
9/16"	20'	0.845	16.90
5/8"	20'	1.043	20.86
3/4"	20'	1.502	30.04
7/8"	20'	2.045	40.90
1"	20'	2.670	53.40
1-1/8"	20'	3.380	67.60
1-1/4"	20'	4.173	83.46
1-3/8"	20'	5.049	100.98
1-1/2"	20'	6.008	120.16
1-3/4"	20'	8.178	163.56
2"	20'	10.680	213.60



## Galvanized Rounds

M1020 / ASTM A-36

Size	Length	WT / FT	WT / Length
1/2"	20'	0.703	14.06
5/8"	20'	1.098	21.96
3/4"	20'	1.581	31.62



## Hot Rolled Squares

M1020 / ASTM A-36

Size	Length	WT / FT	WT / Bar
3/8"	20'	0.478	9.56
1/2"	20'	0.850	17.00
5/8"	20'	1.328	26.56
3/4"	20'	1.913	38.26
1"	20'	3.400	68.00
1-1/4"	20'	5.313	106.26
1-1/2"	20'	7.650	153.00
2"	20'	13.600	272.00

**ASTM A-36** – Low carbon, structural quality steel used in bridges, building construction, and general structural applications. Estimated Minimum Mechanical Properties (EMMP): Yield 36,000 psi. min. – Tensile 58,000-80,000 psi.

**M1020** – Low carbon, low manganese, general purpose, merchant quality steel that is suitable for forming and welding. Estimated Minimum Mechanical Properties (EMMP): Yield 43,000 psi – Tensile 65,000 psi.

**Cold Rolled Rounds 1018**

Size	Length	WT / FT	WT / Length
5/32"	12'	0.065	0.78
3/16"	12'	0.094	1.13
1/4"	12'	0.167	2.00
1/4"	20'	0.167	3.34
5/16"	20'	0.261	5.22
3/8"	20'	0.376	7.52
7/16"	20'	0.511	10.22
1/2"	12'	0.668	8.02
1/2"	20'	0.668	13.36
9/16	20'	0.845	16.90
5/8"	20'	1.043	20.86
11/16"	20'	1.262	25.24
3/4"	20'	1.502	30.04
13/16"	20'	1.763	35.26
7/8"	20'	2.045	40.90
15/16"	20'	2.347	46.94
1"	20'	2.670	53.40
1-1/16"	20'	3.015	60.30
1-1/8"	20'	3.380	67.60
1-3/16"	20'	3.766	75.32
1-1/4"	20'	4.173	83.46
1-5/16"	20'	4.600	92.00
1-3/8"	20'	5.049	100.98
1-7/16"	20'	5.518	110.36
1-1/2"	20'	6.008	120.16
1-5/8"	20'	7.052	141.04
1-11/16"	20'	7.604	152.08
1-3/4"	20'	8.178	163.56
1-7/8"	20'	9.388	187.76
1-15/16"	20'	10.020	200.40
2"	20'	10.680	213.60
2-3/16"	20'	12.780	255.60
2-1/4"	20'	13.520	270.40
2-7/16"	20'	15.870	317.40
2-1/2"	20'	16.690	333.80
2-3/4"	20'	20.190	403.80
2-15/16"	20'	23.040	460.80

**Rounds****Cold Rolled Rounds 1018**

Size	Length	WT / FT	WT / Length
3"	20'	24.030	480.60
3-1/4"	20'	28.210	564.20
3-7/16"	20'	31.550	631.00
3-1/2"	20'	32.710	654.20
4"	12'	42.730	512.76

**Cold Rolled Rounds 1045**

Size	Length	WT / FT	WT / Length
1/4"	20'	0.167	3.34
3/8"	12'	0.376	4.51
3/8"	20'	0.376	7.52
1/2"	20'	0.668	13.36
5/8"	20'	1.043	20.86
3/4"	20'	1.502	30.04
7/8"	20'	2.045	40.90
1"	20'	2.670	53.40
1-1/8"	20'	3.380	67.60
1-3/16"	20'	3.766	75.32
1-1/4"	20'	4.173	83.46
1-5/16"	20'	4.600	92.00
1-3/8"	20'	5.049	100.98
1-7/16"	20'	5.518	110.36
1-1/2"	20'	6.008	120.16
1-5/8"	20'	7.052	141.04
1-3/4"	20'	8.178	163.56
2"	20'	10.680	213.60
2-3/16"	20'	12.780	255.60
2-1/4"	20'	13.520	270.40
2-1/2"	20'	16.690	333.80
2-3/4"	20'	20.190	403.80
3"	20'	24.030	480.60
3-1/2"	20'	32.710	654.20

**1018** – A low carbon steel that is easily welded or brazed with fair machinability and good hardening properties. Manufactured for cold forming and bending. Estimated Minimum Mechanical Properties (EMMP):

Yield – 54,000 psi. Tensile – 64,000 psi.

# Rounds

## Cold Rolled Rounds 1045 Turned Ground and Polished

Size	Length	WT / FT	WT / Length
3/4"	22' rl	1.502	33.04
1"	21' rl	2.670	56.07
1-1/4"	20' rl	4.173	83.46
1-1/2"	20' rl	6.008	120.16
1-3/4"	22' rl	8.178	179.92
2"	24' rl	10.680	256.32
2-1/2"	21' rl	16.690	350.49

## Cold Rolled Rounds 1144

Size	Length	WT / FT	WT / Length
1"	12'	2.670	32.04
1-1/2"	12'	6.008	72.10

## Cold Rolled Rounds 1215

Size	Length	WT / FT	WT / Length
1"	12'	2.670	32.04

## Cold Rolled 1144 Rounds Stress Relieved

Size	Length	WT / FT	WT / Length
5/16"	12' rl	0.261	3.13
3/8"	12' rl	0.376	4.51
1/2"	12' rl	0.668	8.02
5/8"	12' rl	1.043	12.52
3/4"	12' rl	1.502	18.02
7/8"	12' rl	2.045	24.54
1"	12' rl	2.670	32.04
1-1/8"	12' rl	3.380	40.56
1-1/4"	12' rl	4.173	50.08
1-3/8"	12' rl	5.049	60.59
1-7/16"	12' rl	5.518	66.22
1-1/2"	12' rl	6.008	72.10

**Cold Drawn 1144 Bars** – Higher carbon and sulphur levels resulting in superior machinability but restricts weldability. Estimated Minimum Mechanical Properties (EMMP): Yield – 90,000 psi. Tensile – 108,000 psi.

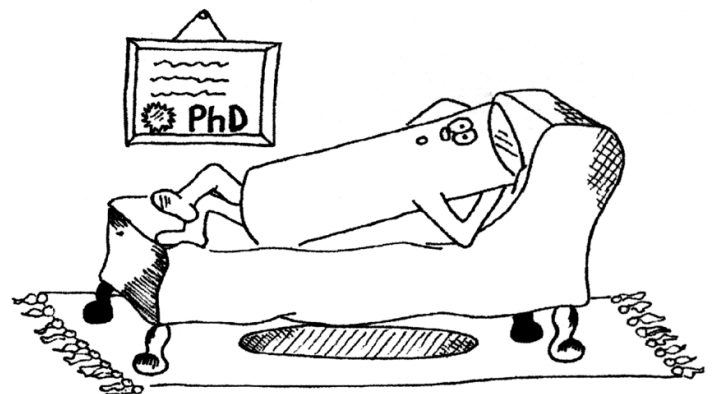
## Cold Rolled 1144 Rounds Stress Relieved

Size	Length	WT / FT	WT / Length
1-5/8"	12' rl	7.052	84.62
1-11/16"	12' rl	7.604	91.25
1-3/4"	12' rl	8.178	98.14
1-7/8"	12' rl	9.388	112.66
1-15/16"	12' rl	10.020	120.24
2"	12' rl	10.680	128.16
2-3/16"	12' rl	12.780	153.36
2-1/4"	12' rl	13.520	162.24
2-7/16"	12' rl	15.870	190.44
2-1/2"	12' rl	16.690	200.28
2-15/16"	12' rl	23.040	276.48
3"	12' rl	24.030	288.36
3"	20' rl	24.030	480.60
3-1/4"	12' rl	28.210	338.52
3-1/2"	12' rl	32.710	392.52

## Cold Rolled 1144 Rounds Stress Relieved Turned Ground & Polished

Size	Length	WT / FT	WT / Length
1"	12' rl	2.670	32.04
1-1/4"	12' rl	4.173	50.08

**1045** – This higher carbon range steel is produced with a smoother finish and has more strength than the 1018. The 1045 does not machine freely, can be forced satisfactorily, is fair for brazing, and welding requires a specific technique. Commonly used for shafts, connecting rods, bolts, wheel flanges, and gears. Response to heat treatment is excellent. Estimated Minimum Mechanical Properties (EMMP): Yield – 77,000 psi. Tensile – 91,000 psi.



## Cold Rolled Squares & Hexagons



### Cold Rolled Squares 1018

Size	Length	WT / FT	WT / Bar
3/16"	12'	0.120	1.44
1/4"	12'	0.213	2.56
5/16"	12'	0.332	3.98
3/8"	12'	0.478	5.74
7/16"	12'	0.651	7.81
1/2"	12'	0.850	10.20
5/8"	12'	1.328	15.94
3/4"	12'	1.913	22.96
7/8"	12'	2.603	31.24
1"	12'	3.400	40.80
1-1/8"	12'	4.303	51.64
1-1/4"	12'	5.313	63.76
1-1/2"	12'	7.650	91.80
2"	12'	13.600	163.20
3"	12'	30.600	367.20



### Cold Rolled Squares 1045

Size	Length	WT / FT	WT / Bar
1-1/4"	12'	5.313	63.76

**1215** – Low carbon, resulphurized, and rephosphorized screw machine steel. This is very fast machining material with a smooth and bright finish used for studs, nuts, fasteners, etc. Can be case hardened. Average Mechanical Properties:

Yield – 60,000-75,000 psi.

Tensile – 70,000-85,000 psi.



### Cold Rolled Hexagons 1018

Size	Length	WT / FT	WT / Bar
3/8"	12' rl	0.414	4.97
7/16"	12' rl	0.564	6.77
1/2"	12' rl	0.736	8.83
9/16"	12' rl	0.932	11.18
5/8"	12' rl	1.150	13.80
11/16"	12' rl	1.392	16.70
3/4"	12' rl	1.656	19.87
7/8"	12' rl	2.254	27.05
1"	12' rl	2.944	35.33
1-1/8"	12' rl	3.727	44.72
1-1/4"	12' rl	4.601	55.21
1-3/8"	12' rl	5.567	66.80
1-1/2"	12' rl	6.625	79.50



### Cold Rolled Hexagons 12L14

Size	Length	WT / FT	WT / Bar
1/2"	12' rl	0.736	8.83
5/8"	12' rl	1.150	13.80
3/4"	12' rl	1.656	19.87
7/8"	12' rl	2.254	27.05
1"	12' rl	2.945	35.34
1-1/8"	12' rl	3.727	44.72
1-1/4"	12' rl	4.601	55.21
1-1/2"	12' rl	6.625	79.50



### Cold Rolled 1144 Hexagons

#### Stress Relieved

Size	Length	WT / FT	WT / Length
9/16"	12' rl	0.932	11.18
3/4"	12' rl	1.656	19.87
1"	12' rl	2.944	35.33
1-1/8"	12' rl	3.727	44.72

# Stainless



## Stainless Channel

Type 304 Annealed and Pickled

Size	Length	WT / FT	WT / Bar
3 x 1-1/2 x 1/4	20' rl	4.750	95.00
4 x 1-3/4 x 1/4	20' rl	6.690	133.80



## Stainless Squares

Type 304 Annealed Cold Drawn

Size	Length	WT / FT	WT / Bar
1/4"	12' rl	0.213	2.56
5/16"	12' rl	0.332	3.98
3/8"	12' rl	0.478	5.74
7/16"	12' rl	0.651	7.81
1/2"	12' rl	0.850	10.20
3/4"	12' rl	1.913	22.96
1"	12' rl	3.400	40.80
1-1/4"	12' rl	5.313	63.76
1-1/2"	12' rl	7.650	91.80



## Stainless Angles

Type 304 Hot Rolled / Annealed and Pickled

Size	Length	WT / FT	WT / Bar
3/4 x 3/4 x 1/8	20' rl	0.590	11.80
1 x 1 x 1/8	20' rl	0.800	16.00
1 x 1 x 3/16	20' rl	1.160	23.20
1 x 1 x 1/4	20' rl	1.490	29.80
1-1/4 x 1-1/4 x 1/8	20' rl	1.010	20.20
1-1/4 x 1-1/4 x 3/16	20' rl	1.480	29.60
1-1/4 x 1-1/4 x 1/4	20' rl	1.920	38.40
1-1/2 x 1-1/2 x 1/8	20' rl	1.230	24.60
1-1/2 x 1-1/2 x 3/16	20' rl	1.800	36.00
1-1/2 x 1-1/2 x 1/4	20' rl	2.340	46.80
2 x 2 x 1/8	20' rl	1.650	33.00
2 x 2 x 3/16	20' rl	2.440	48.80
2 x 2 x 1/4	20' rl	3.190	63.80
2 x 2 x 3/8	20' rl	4.700	94.00
2-1/2 x 2-1/2 x 3/16	20' rl	3.070	61.40
2-1/2 x 2-1/2 x 1/4	20' rl	4.100	82.00



## Stainless Angles

Type 304 Hot Rolled / Annealed and Pickled

Size	Length	WT / FT	WT / Bar
3 x 3 x 1/4	20' rl	4.900	98.00
3 x 3 x 3/8	20' rl	7.200	144.00
4 x 4 x 1/4	20' rl	6.600	132.00



## Stainless Round

Type 304 Annealed

Size	Length	WT / FT	WT / Bar
1/8"	12' rl	0.042	0.50
3/16"	12' rl	0.094	1.13
1/4"	12' rl	0.167	2.00
5/16"	12' rl	0.261	3.13
3/8"	12' rl	0.376	4.51
7/16"	12' rl	0.511	6.13
1/2"	12' rl	0.668	8.02
5/8"	12' rl	1.043	12.52
3/4"	12' rl	1.502	18.02
7/8"	12' rl	2.045	24.54
1"	12' rl	2.670	32.04
1-1/8"	12' rl	3.380	40.56
1-3/16"	12' rl	3.766	45.19
1-1/4"	12' rl	4.172	50.06
1-3/8"	12' rl	5.050	60.60
1-7/16"	12' rl	5.518	66.22
1-1/2"	12' rl	6.008	72.10
1-5/8"	12' rl	7.052	84.62
1-3/4"	12' rl	8.178	98.14
1-15/16"	12' rl	10.020	120.24
2"	12' rl	10.680	128.16
2-3/16"	12' rl	12.780	153.36
2-1/4"	12' rl	13.520	162.24
2-7/16"	12' rl	15.870	190.44
2-1/2"	12' rl	16.690	200.28
3"	12' rl	24.030	288.36