

1-800-GRAINGER (472-4643)

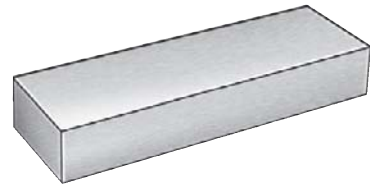


Alloy Steel Ball Stock

▪ +/-0.0001 in Dia. tolerance

Used in industrial applications such as mechanical motion technology, where high load capacity and fine surface finishes are required.

Dia.	Min. Crush Load	Item No.	Dia.	Min. Crush Load	Item No.
52100 High Carbon Chrome Steel					
1/16 in	275 lb	4RJF1	3/8 in	25,000 lb	4RJG8
3/32 in	345 lb	4RJF2	1/2 in	36,000 lb	4RJG9
1/8 in	618 lb	4RJF3	1 in	64,000 lb	4RJH1
3/16 in	1,100 lb	4RJF4	1.5 mm	275 lb	49AE68
1/4 in	1,392 lb	4RJF5	2.0 mm	275 lb	49AE69
5/32 in	1,718 lb	4RJF6	3.0 mm	800 lb	49AE70
3/16 in	2,475 lb	4RJF7	4.0 mm	1,718 lb	49AE71
7/32 in	3,368 lb	4RJF8	5.0 mm	2,475 lb	49AE72
1/2 in	4,400 lb	4RJF9	6.0 mm	4,050 lb	49AE73
9/32 in	5,568 lb	4RJG1	7.0 mm	5,472 lb	49AE74
5/16 in	6,875 lb	4RJG2	8.0 mm	6,875 lb	49AE75
11/32 in	8,318 lb	4RJG3	9.0 mm	8,318 lb	49AE76
3/8 in	9,900 lb	4RJG4	10.0 mm	9,600 lb	49AE77
7/16 in	13,475 lb	4RJG5	11.0 mm	13,416 lb	49AE78
1/2 in	17,600 lb	4RJG6	12.0 mm	13,475 lb	49AE79
9/16 in	20,250 lb	4RJG7	15.0 mm	17,600 lb	49AE80
			20.0 mm	36,000 lb	49AE81



Alloy Steel Blanks & Flat Stock

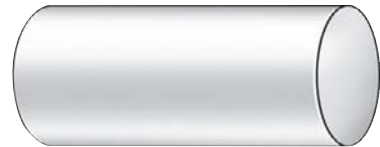
After being softened in the annealed heat-treatment process, **Flat Stock** alloy steel is relatively easy to machine and responds well to heat-treatment. It has good strength, toughness, ductility, and resistance to wear and fatigue. Suitable applications include general-purpose machining, blades, brakes, dies, fixtures, tool holders, bolts, piston rods, and axles. **Blank stock** has been heat-treated for strength and hardness while maintaining reasonable toughness. This helps make it optimal for machining and precision applications of metal parts and products.

Thickness	W	6 ft Item No.	12 in Item No.	36 in Item No.	Thickness	W	L	Item No.
Flat Stock								
1/4"	1 in	2HKE3	2HKD6	2HKD9	3/8"	4.0 in	11 3/4 in	1UXF8
	2 in	2HKE4	2HKD7	2HKE1		2.0 in	11 3/4 in	1UXG2
	3 in	2HKE5	2HKD8	2HKE2		4.0 in	11 3/4 in	1UXG3
3/8"	1 in	2HKF1	2HKE6	—	2.0 in	11 3/4 in	1UXG5	
	2 in	2HKF2	—	2HKE9	4.0 in	11 3/4 in	1UXG6	
	1 in	2HKG6	—	2HKF9	6.0 in	5 3/4 in	1UXG8	
1/2"	1.5 in	—	2HKF4	2HKG1	12.0 in	11 3/4 in	1UXG4	
	2 in	2HKG8	—	—	2.0 in	11 3/4 in	1UXH4	
	2.5 in	2HKG9	2HKF6	2HKG3	4.0 in	11 3/4 in	1UXH5	
3/4"	3 in	—	2HKF7	2HKG4	1"	4.0 in	11 3/4 in	1UXH7
	1.5 in	2HKJ2	2HKH3	2HKH7				
	2 in	2HKJ3	2HKH4	2HKH8				
1"	3 in	2HKJ4	2HKH5	2HKH9				
	4 in	2HKJ5	2HKH6	2HKJ1				
1 1/2"	1.5 in	2HKK4	—	2HKK8				
	3 in	2HKK6	2HKJ7	2HKK1				
1 1/2"	2 in	2HKL3	2HKK8	2HKL1				
	4 in	2HKL4	2HKK9	2HKL2				

Alloy Steel Rod Stock

4140 cold-finished alloy steel is suitable when greater toughness and wear-resistance is needed for applications including, but not limited to, ejectors, tooling, cams, collars, bolts, axels, rods, and machinery parts and components.

8620 cold-finished alloy steel is ideal for applications such as fasteners, bearings, gears, shafts and other machine parts.



Dia.	L	Dia. Tolerance	Length Tolerance	Finish	Item No.
Alloy 4140 (Annealed), Cold Drawn					
3/8"	6 ft	+0.000/-0.005 in	+/-6.000 in	Unpolished	2HKT8
3/4"	3 ft	+0.000/-0.005 in	+/-3.000 in		2HKR4
3/4"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKT9
7/8"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU1
1"	1 ft	+0.000/-0.005 in	+/-1.000 in		2HKN6
1"	3 ft	+0.000/-0.005 in	+/-3.000 in		2HKR6
1"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU2
1 1/4"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU3
1 3/8"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU4
1 1/2"	6 ft	+0.000/-0.005 in	+/-6.000 in		2HKU5
2 3/4"	3 ft	+0.000/-0.007 in	+/-3.000 in		2HKT6
3"	6 ft	+0.000/-0.007 in	+/-6.000 in		2AHR9
4"	6 ft	+0.000/-0.007 in	+/-6.000 in	2AHT2	
Alloy 4140 (Heat Treated), Cold Drawn					
2"	6 ft	+0.000/-0.007 in	+/-6.000 in	Unpolished	2KHU9
3"	6 ft	+0.000/-0.008 in	+/-6.000 in		2AHU2

Dia.	L	Dia. Tolerance	Length Tolerance	Finish	Item No.	
Alloy 8620, Cold Drawn						
3/4"	3 ft	+0.000/-0.003 in	+/-3.000 in	Unpolished	2KUK1	
1"	6 ft	+0.000/-0.003 in	+/-6.000 in		2KUK9	
1 1/2"	1 ft	+0.000/-0.003 in	+/-1.000 in		2KUL1	
2"	6 ft	+0.000/-0.004 in	+/-6.000 in		2KUJ2	
2 1/4"	6 ft	+0.000/-0.004 in	+/-6.000 in		2KUL5	
3"	3 ft	+0.000/-0.005 in	+/-3.000 in		2ARD9	
4"	6 ft	+0.000/-0.005 in	+/-6.000 in		2AHU7	
Precision Centerless Rounds - Alloy 4140 (Heat Treated), Cold Drawn						
1"	1 ft	+0.0000/-0.0010 in	+/-1.000 in		Turned, Ground, And Polished	3ANN7
1"	3 ft	+0.0000/-0.0010 in	+/-3.000 in			3ANH5
1"	6 ft	+0.0000/-0.0010 in	+/-6.000 in	3GTG5		
1 1/4"	1 ft	+0.0000/-0.0010 in	+/-1.000 in	3ANN8		
1 1/2"	1 ft	+0.0000/-0.0010 in	+/-1.000 in	3ANP7		
1 1/2"	6 ft	+0.0000/-0.0010 in	+/-6.000 in	3GTH5		
1 3/4"	3 ft	+0.0000/-0.0015 in	+/-3.000 in	3ANH7		
2"	1 ft	+0.0000/-0.0015 in	+/-1.000 in	3ANP1		

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