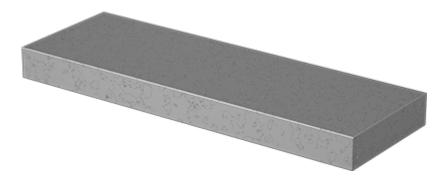
McMASTER-CARR®

Low-Carbon Steel Bar 1" Thick, 4" Wide

\$83.38 Each 8910K58



Material	Low-Carbon Steel
Cross Section	Rectangle
Shape	
Construction	Solid
Appearance	Plain
Thickness	1"
Thickness	-0.006" to 0"
Tolerance	
Tolerance	Undersized
Rating	
Width	4"
Width	-0.006" to 0"
Tolerance	
Yield Strength	54,000 psi
Fabrication	Cold Worked
Temper Rating	Hardened
Hardness	Rockwell B70
Hardness	Medium
Rating	
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C60
Temperature Range	Not Rated
Specifications Met	ASTM A108
Straightness Tolerance	Not Rated
Density	0.28 lbs./cu. in.
Surface	15 microhm-cm @
Resistivity	32° F
Thermal	350 Btu/hr. × in./sq.
Conductivity	ft./°F @ 212° F
Coefficient of Thermal Expansion	7.1 × 10 ⁻⁶
Elongation	23%
Material Composition	

Iron	98.06-99.42%
Carbon	0.13-0.20%
Manganese	0.30-0.90%
Phosphorus	0.04% Max.
Silicon	0.15-0.30%
Sulfur	0.50% Max.
Length	-2" to 2"
Tolerance	
Length	2 ft.
RoHS	Not Compliant

Low-carbon steel offers good machinability with excellent weldability. It's widely used for parts that don't require high strength, such as fixture clamps, mounting plates, and spacers. This material can be surface hardened with heat treating.