

## 5160 Steel

5160 is a medium carbon “spring steel” that has excellent toughness and high durability. It is quite flexible, resists heavy shocks well, and is well suited for swords, axes, large bowies, and other blades where a larger, flexible blade is desired.

### 5160 has the following characteristics:

<b>Carbon</b>	0.56 to 0.64%
<b>Chromium</b>	0.70 to 0.90%
<b>Manganese</b>	0.75 to 1.00%
<b>Phosphorus</b>	0.035% maximum
<b>Silicon</b>	0.15 to 0.35%
<b>Sulphur</b>	0.04% maximum
<b>Wear resistance</b>	high/medium
<b>Toughness</b>	high
<b>Red hardness</b>	low
<b>Distortion in heat treating</b>	low
<b>Forge</b>	Start at 1,800 degrees Fahrenheit
<b>Austenite forging</b>	yes
<b>Hardening</b>	1,450 to 1,550 degrees Fahrenheit
<b>Quench</b>	oil
<b>Tempering</b>	300 to 450 degrees Fahrenheit
<b>Rc hardness</b>	62 to 55