

# STEEL C100

DIN 17222	En Nr.	UNS (ASTM)		AISI	
Chemical composition (Weight %)	C	Mn	Si	P	S
	0.95-1.05	0.40-0.60	0.15-0.40	<0.035	<0.035
Main technological properties	Simple, though popular carbon blade steel, very popular with knife-makers as it is easily worked. Sort of the de-facto standard carbon steel that will rust easily. Typical hardness is in the 58-60HRC range. Several makers take it all the way up to 64-65HRC.				
Typical dimensions	Thickness (mm)		Width (mm)	Length (mm)	
	Strip in coil	0.10	200	-	
	Strips in sheet	-	-	-	
Mechanical properties	Temper hard	Rm (N/mm <sup>2</sup> ) 2050-2070		Rp (N/mm <sup>2</sup> )	A50mm (%) Hv
Color	gray				
Typical usage	C100 is used widely for a variety of applications including <ul style="list-style-type: none"> <li>• wood cutting saws,</li> <li>• masonry tools</li> <li>• clutches</li> <li>• agricultural tools</li> <li>• knives</li> <li>• doctor blades,</li> <li>• saw blades,</li> <li>• shims</li> <li>• washers</li> <li>• flat springs</li> </ul>				
Surface	Special surface qualities upon request				
Flatness	Special requirement on the longitudinal or transversal flatness upon request				

