

Material data sheet

Material Number 1.0718
Country Germany
Designations 11SMnPb30; 9 SMnPb 28 †

Mechanical properties

dimension value specimen at temperature cooling duration

DIN EN 10087 (01/1999)
Free-cutting steels - Technical delivery conditions for semi-finished products, hot-rolled bars and rods.

Tensile strength					
5 - 10 mm	380 - 570 N/mm²				
10 - 16 mm	380 - 570 N/mm²				
16 - 40 mm	380 - 570 N/mm²				
40 - 63 mm	370 - 570 N/mm²				
63 - 100 mm	360 - 520 N/mm²				
Hardness [HB]					
16 - 40 mm	112 - 169 HB				1.1)
40 - 63 mm	112 - 169 HB				1.1)
63 - 100 mm	107 - 154 HB				1.1)

Flat products

Tensile strength					
5 - 10 mm	>=340 N/mm²				
10 - 16 mm	>=340 N/mm²				
16 - 40 mm	>=340 N/mm²				
40 - 63 mm	>=340 N/mm²				
63 - 100 mm	>=340 N/mm²				

1.1) Reference value