

Quality SAE 1117  
 According to standards ASTM A 576-90b:2000  
 Number

**Hot Rolled**



Equivalent	USA AISI/SAE	Italy UNI	China G8	Germany DIN	UK
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	SAE 1116 SAE 1117	10S20			
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**Chemical composition**

C% max	Si%	Mn%	P% max	S% max	Cr% max
0.14-0.20	-	1.10-1.40	0.04	0.16-0.23	-

Mo% max	Ni% max	V% max	Cu% max
-	-	-	-

**Mechanical properties**

ASTM A 311/A 311M: 2004 cold-drawn stress relief cl. A +C +SR

Size (MM)	Testing at room temperature (longitudinal)				
from to	R (N/mm2 min)	Rp 0.2 N/mm2	A% min	Z%	HB
20	520	450	15	40	155
20 to 30	485	415	15	40	147
30 to 50	450	380	13	35	135
50 to 75	415	345	12	30	123

**Hot rolled normalized at 900°C**

Size (MM)	Testing at room temperature (longitudinal)				
> ≥	R (N/mm2 min)	Rp 0.2 N/mm2	A% min	Z%	HB
all size	490	305	33	63	146
	470	305	33.5	54	137
	430	285	32.8	58	126