

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