

Material properties

Material	A 106 Grade C (USA / ASTM)
Group	Structural and constructional steels
Subgroup	ASTM A 106 / A 106M Seamless carbon steel pipe for high temperature service
Comment	

Application

Yield Stress[MPa]			
Dimension	Min	Max	Approx
Pipe; Longitudinal	275	-	-
Pipe; Transverse	275	-	-

Tensile Stress[MPa]			
Dimension	Min	Max	Approx
Pipe; Longitudinal	485	-	-
Pipe; Transverse	485	-	-

Elongation A5 [%]			
Dimension	Min	Max	Approx
Pipe; Longitudinal	20.0	-	-
Pipe; Transverse	12.0	-	-

Chemical Composition [%]			
Criterion	Min	Max	Approx
C	-	0.3500	-
Si	0.1000	-	-
Mn	0.2900	1.0600	-
P	-	0.0350	-
S	-	0.0350	-
Cr	-	0.4000	-
Mo	-	0.1500	-

Chemical Composition [%]

Criterion	Min	Max	Approx
Ni	-	0.4000	-
V	-	0.0800	-
Cu	-	0.4000	-

Heat Treatment

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Cold-drawn pipe shall be heat treated after the final cold draw pass at a temperature of 650°C or higher.

Cross Reference Table

Material	Standard	Country
38 MS 5	AFNOR NF	France
A 106 Grade B	ASTM	USA
13240	CSN	Czech Republic
37 MnSi 5	DIN	Germany
35SiMn	GB	China
ZG35SiMn	GB	China
35 SG	PN	Poland
35 MnSi 13	STAS	Romania
F.130.A	UNE	Spain
1.5122	WN	Germany