

Material properties



Material **A 516 Grade 70 (USA / ASTM)**
Group Structural and constructional steels
Subgroup ASTM A 516 / A 516M Carbon steel plates intended primarily for service in welded pressure vessels

Comment

Application

Yield Stress[MPa]			
Dimension	Min	Max	Approx
Plate; As rolled or normalized	260	-	-

Tensile Stress[MPa]			
Dimension	Min	Max	Approx
Plate; As rolled or normalized	485	620	-

Elongation A5 [%]			
Dimension	Min	Max	Approx
Plate; As rolled or normalized	21.0	-	-

Chemical Composition [%]			
Criterion	Min	Max	Approx
C	-	0.2700	-
Si	0.1500	0.4000	-
Mn	0.8500	1.2000	-
P	-	0.0350	-
S	-	0.0350	-

- C Depending on thicknesses

Cross Reference Table		
Material	Standard	Country
7-490	AS	Australia
A 414 Grade F	ASTM	USA

Cross Reference Table

Material	Standard	Country
A 515 Grade 70	ASTM	USA
17 GS	BDS	Bulgaria
11474	CSN	Czech Republic
19 Mn 5	DIN	Germany
H IV / P295NH	DIN	Germany
SG 365	JIS	Japan
C 3133	JUS	Yugoslavia
19 G 2	PN	Poland
Fe 460-2 KW	UNI	Italy
Fe 460-1 KG	UNI	Italy
Fe 460-2 KT	UNI	Italy
Fe 460-1 KW	UNI	Italy
Fe 460-1 KT	UNI	Italy
Fe 460-2 KG	UNI	Italy
K03101	UNS	USA
K02700	UNS	USA
K03102	UNS	USA
1.0482	WN	Germany
1.0445	WN	Germany