

## 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	-	-
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Tensile Stress[MPa]			
Dimension	Min	Max	Approx

Plate; As rolled or normalized	485	620	-
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Elongation A5 [%]			
Dimension	Min	Max	Approx

Plate; As rolled or normalized	21.0	-	-
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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
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