

Materials specifications for butt - welding fittings ASTM materials

Chemical Composition (Percent)			Mechanical				Marking Strength
Max. Or Range (Unless Otherwise Indicated)			Other Elements	Tensile Strength Min. Or Range KSI (MPa)	Yield Strength Min. KSI (MPa)	Longitudinal Elongation in 2 in. (50mm) Min. %	
Cr	Mo	Ti					
-	-	-	-	60	(414)	35(24)	25
-	-	-	-	60-85	(450-585)	35(24)	23
-	-	-	-	70-80	(485-520)	38(26)	21
-	-	-	-	70	(483)	40(27)	30
-	0.44-0.65	-	-	65	(379)	30(20)	30
-	0.41-0.64	-	-	70-80	(485-520)	40(27)	22
0.08-1.25	-	-	-	60	(414)	30(20)	30
0.74-1.21	0.40-0.65	-	-	58-80	(390-550)	33(23)	22
1.00-1.50	0.40-0.65	-	-	60	(414)	30(20)	30
0.94-1.56	0.40-0.70	-	-	60-85	(415-585)	35(24)	22
1.88-2.62	0.87-1.13	-	-	60	(414)	30(20)	30
1.88-2.62	0.85-1.15	-	-	60-85	(415-585)	30(20)	18
4.00-6.00	0.45-0.65	-	-	60	(414)	30(20)	30
4.00-6.00	0.40-0.70	-	-	60-85	(415-585)	30(20)	18
8.00-10.00	0.90-1.10	-	-	60	(414)	30(20)	30
8.00-10.00	0.90-1.10	-	-	60-85	(415-585)	30(20)	18
18.00-20.00	-	-	-	75	(517)	30(20)	30
18.00-20.00	-	-	-	75	(515)	30(20)	40
18.00-20.00	-	-	-	75	(517)	25(17)	35
18.00-20.00	-	-	-	75	(515)	25(17)	40
18.00-20.00	-	-	-	65	(448)	30(20)	30
18.00-20.00	-	-	-	65	(448)	30(20)	40
22.00-24.00	-	-	-	75	(517)	30(20)	30
22.00-24.00	-	-	-	75	(515)	30(20)	40
24.00-26.00	-	-	-	75	(517)	30(20)	30
24.00-26.00	-	-	-	75	(515)	30(20)	40
18.00-18.00	2.00-3.00	-	-	75	(517)	30(20)	35
18.00-18.00	2.00-3.00	-	-	75	(515)	30(20)	40
18.00-18.00	2.00-3.00	-	-	75	(517)	30(20)	35
18.00-18.00	2.00-3.00	-	-	75	(515)	30(20)	40
18.00-18.00	2.00-3.00	-	-	75	(517)	25(17)	35
18.00-18.00	2.00-3.00	-	-	75	(515)	25(17)	40
18.00-20.00	3.00-4.00	-	-	75	(515)	30(20)	35
18.00-20.00	3.00-4.00	-	-	80	(550)	35(24)	40
17.00-19.00	-	5X-0.60	N 0.10	70	(483)	30(20)	35
17.00-19.00	-	5X-0.70	-	65	(448)	30(20)	40
17.00-20.00	-	4X-0.60	8234	75	(517)	30(20)	35
17.00-19.00	-	4X-0.70	-	75	(515)	30(20)	40
17.00-20.00	-	-	Cb+Ta10X-1.00	75	(517)	30(20)	35
17.00-19.00	-	-	Cb+Ta10X-1.00	75	(515)	30(20)	40
-	-	-	-	60	(414)	35(24)	30
-	-	-	-	60-80	(145-520)	35(22)	25
-	-	-	-	65	(448)	35(24)	30
-	-	-	-	65-85	(450-585)	37(25)	23
-	-	-	Cu 0.75-1.02	63	(435)	40(15)	28
-	-	-	-	65-85	(450-585)	37(25)	23

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