

GB700-88

Chemical composition, %

Grade		C	Mn	Si	S	P
				Not larger than		
Q195	-	0.05~0.12	0.25~0.50	0.30	0.050	0.045
Q215	A	0.09~0.15	0.25~0.55	0.30	0.050	0.045
	B				0.045	
Q235	A	0.14~0.22	0.30~0.66	0.30	0.050	0.045
	B	0.12~0.20	0.30~0.70		0.045	
	C	<= 0.18	0.35~0.80		0.040	0.040
	D	<= 0.17			0.035	0.035
Q255	A	0.18~0.28	0.40~0.70	0.30	0.050	0.045
	B				0.045	
Q275	-	0.28~0.38	0.50~0.80	0.35	0.050	0.045

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Mechanical properties

Grade		Yield Strength, N/mm ²												Impact Test		
		Steel thickness (diameter), mm						Tensile strength	Elongation, %						Temperature C	Min J
		<=16	>16~40	>40~60	>60~100	>100~150	>150		<=16	>16~40	>40~60	>60~100	>100~150	>150		
		Not smaller than							Not smaller than							
Q195	-	(195)	(185)	-	-	-	-	315~430	33	32	-	-	-	-	-	-
Q215	A	215	205	195	185	175	165	335~450	31	30	29	28	27	26	-	-
	B														20	27
Q235	A	235	225	215	205	195	185	375~500	26	25	24	23	22	21	-	-
	B														20	27
	C														0	
	D														-20	
Q255	A	255	245	235	225	215	205	410~550	24	23	22	21	20	19	-	-
	B														20	27
Q275	-	275	265	255	245	235	225	490~630	20	19	18	17	16	15	-	-