

PRODUCT SPECIFICATION TABLE

Specifications	Shapes	Grades	Chemical Composition% (Max)					Mechanical Properties (Min)		
			C	Si	Mn	P	S	Yield (MPa)	Tensile (MPa)	Elongation %
BS 1387:1985	Round	A,B,C	0.20	-	1.20	0.045	0.045	195	320-460	20
JIS G 3452:1997	Round	-	-	-	-	0.040	0.040	-	290	30
BS 1139:1990	Round	-	0.20	0.30	-	0.050	0.050	235	340-480	24
BS 534:1990	Round	430	0.21	0.35	0.40-1.20	0.040	0.040	275	430-570	22
BS EN 10224:2002	Round	L 235	0.16	0.35	1.20	0.030	0.025	235	360-500	25 ^L ,23 ^T
		L 275	0.20	0.40	1.40	0.030	0.025	275	430-570	21 ^L ,19 ^T
		L 355	0.22	0.55	1.60	0.030	0.025	355	500-650	21 ^L ,19 ^T
BS 31:1940 (Conduit : Imperial)	Round	-	-	-	-	-	-	-	278-371	15
BS 4568:Part1:1970 (Conduit : Metric)	Round	-	-	-	-	-	-	-	278-371	15
ASTM A - 500	Round	A	0.30	-	-	0.045	0.045	228	310	25
		B	0.30	-	-	0.045	0.045	290	400	23
		C	0.27	-	1.35	0.035	0.035	317	427	21
		D	0.30	-	-	0.045	0.045	250	400	23
	Square, Rectangular	A	0.30	-	-	0.045	0.045	269	310	25
		B	0.30	-	-	0.045	0.045	317	400	23
		C	0.27	-	1.35	0.035	0.035	345	427	21
		D	0.30	-	-	0.045	0.045	250	400	23
BS EN 10219	Round,	S235	0.17	-	1.40	0.045	0.045	235	360-510 ⁽⁻⁾ ,340-470 ⁽⁺⁾	24
	Square,	S275	0.20	-	1.50	0.040	0.040	275	430-580 ⁽⁻⁾ ,410-560 ⁽⁺⁾	20
	Rectangular	S355	0.22	0.55	1.62	0.040	0.040	355	430-580 ⁽⁻⁾ ,410-560 ⁽⁺⁾	20
AS 1163	* Round,	250	0.12	0.05	0.50	0.040	0.030	250	320	*22,18
	Square,	350	0.20	0.25	1.60	0.040	0.300	350	430	*20,16
	Rectangular	450	0.20	0.45	1.60	0.040	0.300	450	500	*16, 14
JIS G 3466	Square,	STKR 400	0.25	-	-	0.040	0.040	245	400	23
	Rectangular	STKR 490	0.18	0.55	1.50	0.040	0.040	325	490	23
JIS G 3444	Round	STK 290	-	-	-	0.050	0.050	-	290	30 ^L ,25 ^T
		STK 400	0.25	-	-	0.040	0.040	235	400	23 ^L ,18 ^T
		STK 500						355	500	15 ^L ,10 ^T
JIS G 3445:1988	Round	STKM 11A	0.12	0.35	0.60	0.040	0.040	-	290	30
JIS G 3350:1987	Channel	SSC 400	0.25	-	-	0.050	0.050	245	400-540	21

Remarks: L = Longitudinal direction, T = Transverse direction, (-) = t < 3mm. (+) = 3mm ≤ t ≤ 40mm