

Mechanical Properties: IS: 2062/2011

Grade Designation	Quality	Tensile Strength Rm Min Mpa	Yield Strength min, MPa			Percentage Elongation A, at Gauge Length, L=5.65 √S Min	Internal Bend Diameter Min (See Note 2)		Charpy Impact Test (See Note 3 & 4)	
			<20 mm	20-40 mm	>40 mm		≤25 mm	>25 mm	Temp °C	Min
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
E-250	A	410	250	240	230	23	2t	3t	—	—
	BR								RT	27
	BO								0	27
	C								(-) 20	27
E-300	A	440	300	290	280	22	2t	—	—	—
	BR								RT	27
	BO								0	27
	C								(-) 20	27
E-350	A	490	350	330	320	22	2t	—	—	—
	BR								RT	27
	BO								0	27
	C								(-) 20	27
E-410	A	540	410	390	380	20	2t	—	—	—
	BR								RT	25
	BO								0	25
	C								(-) 20	25
E-450	A	570	450	430	420	20	2.5t	—	—	—
	BR								RT	20
E-550	A	650	550	530	520	12	3t	—	—	—
	BR								RT	15
E 600	A	730	600	580	570	12	3.5t	—	—	—
	BR								RT	15