

UNIT CONVERTER

	MTR	FEET	INCH	MM
MTR	1	3.28084	39.3701	1000
FEET	0.3048	1	12	304.8
INCH	0.0254	0.0833333	1	25.4
MM	0.001	0.00328084	0.0393701	1

IS : 2062 CHEMICAL COMPOSITION

GRADE	C% MAX.	Mn% MAX.	S% MAX.	P% MAX.	Si% MAX.	CE% MAX.
A	0.23	1.5	0.05	0.05	0.4	0.42
B	0.22	1.5	0.045	0.045	0.4	0.41
C	0.2	1.5	0.04	0.04	0.4	0.39

MECHANICAL PROPERTIES

GRADE	UTS (MPa) MIN.	Y.S. (MPa) MIN.	E1% MIN. 5.65 SQRT (So)	BEND TEST		
A	410	250	240	230	23	3T
B	410	250	240	230	23	2T&3T*
C	410	250	240	230	23	2T

* 2T -<= 25mm
* 3T ->= 25mm

8
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ROUND

ROUND	KG/MTR	ROUND	KG/MTR
10	0.62	75	34.66
12	0.89	80	39.46
16	1.58	85	44.54
20	2.47	90	49.94
22	2.98	100	61.66
25	3.85	110	74.6
28	4.83	115	81.53
32	6.31	120	88.78
36	7.99	125	96.34
40	9.86	130	104.19
45	12.29	140	120.84
50	15.41	150	138.72
53	17.31	160	157.84
56	19.34	170	178.18
60	22.18	180	199.76
63	24.47	190	222.57
65	25.45	200	246.62
70	31.08		

CHANNEL

CHANNEL	KG/MTR	CHANNEL	KG/MTR
75 X 40	7.1	200 X 75	22.3
100 X 50	9.6	250 X 80	30.6
125 X 65	13.1	300 X 90	36.3
150 X 75	16.8	350 X 90	42.7
175 X 75	19.6	400 X 100	50.1

9
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SQ. BAR

SQ. BAR	KG/MTR	SQ. BAR	KG/MTR
10x10	0.78	50x50	19.62
12x12	1.13	65x65	33.17
16x16	2.01	75x75	44.15
20x20	3.14	90x90	63.58
25x25	4.91	100x100	78.5
32x32	8.04	125x125	122.66
40x40	12.56	150x150	180

ANGLE

ANGLE	KG/MTR	ANGLE	KG/MTR
25X3	1.1	75X8	8.9
25X5	1.4	75X10	11
30X3	1.4	90X6	8.2
37X3	1.8	90X8	10.8
35X5	2.6	100X6	9.2
40X5	3	100X8	12.1
40X6	3.5	100X10	14.9
50X5	3.8	100X12	17.7
50X6	4.5	130X10	19.7
65X5	4.9	130X12	28.9
65X6	5.8	150X10	22.8
65X8	7.7	150X12	27.2
65X10	9.4	150X16	39.9
75X5	5.7	150X20	44.1
75X6	6.8		

10
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T. ANGLE

T. ANGLE	KG/MTR
40X6	3.5
50X6	4.5
60X6	5.4

PLATE

PLATE	KG/MTR	PLATE	KG/MTR
1250x2500x1.6	39.25	1500X2500X3	88.31
1250X2500X2	49.06	1500X2500X4	117.75
1250X2500X2.5	61.33	1500X6300X5	370.91
1250X2500X3	73.59	1500X6300X6	445.10
1250X2500X4	98.13	1500X6300X8	593.46
1250X5000X5	245.31	1500X6300X10	741.83
1250X2500X6	294.38	1500X6300X12	890.19
1250X5000X8	392.50	1500X6300X14	1038.56
1250X5000X10	490.63	1500X6300X16	1186.92
1250X5000X12	588.75	1500X6300X20	1483.65
1250X5000X14	686.88	1500X6300X22	1632.02
1250X5000X16	785	1500X6300X25	1854.56
1250X5000X20	981.25	1500X5000X32	2373.84
1250X5000X22	1079.38	1500X5000X36	2119.50
1250X5000X25	1226.56	1500X5000X40	2355.00
1250x5000x32	1570		

11
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BEAM

BEAM	KG / MTR	BEAM	KG / MTR
100 x 50	8.5	350 X 140	52.40
125 x 75	13.00	400 X 140	61.60
150 x 80	14.90	450 X 150	72.40
175 x 90	19.30	500 X 180	86.90
200 x 100	25.40	600 X 250	122.60
250 x 125	37.30	100 X 116	20.00
300 x 140	44.20	150 X 152	30.00
		200 X 200	40.00

FLATS


FLATS	KG/MTR	FLATS	KG/MTR
20X3	0.47	30 X 10	2.4
20X5	0.79	30 X 12	2.8
20X6	0.94	37 X 3	0.9
20X3	0.6	40 X 5	1.6
25X5	1	40 X 6	1.9
25X6	1.2	40 X 8	2.5
25X8	1.6	40 X 10	3.1
25X10	2	40 X 12	3.8
25X12	2.4	40 X 16	5
30X3	0.7	40 X 20	6.3
30X5	1.2	40 X 25	7.85
30X6	1.4	50 X 5	2
30X8	1.9	50 X 6	2.4

12
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FLATS	KG/MTR	FLATS	KG/MTR
50 X 8	3.1	100 x 16	12.6
50 X 10	3.9	100 x 20	15.7
50 X 12	4.7	100 x 25	19.6
50 X 16	6.3	100 x 32	25.1
50 X 20	7.8	100 x 40	31.4
50 X 25	9.8	100 x 50	39.25
50 X 32	12.6	125 x 6	5.9
65 X 6	3.1	125 x 8	7.8
65 X 8	4.1	125 x 10	9.8
65 X 10	4.9	125 x 12	11.8
65 X 12	5.1	125 x 16	15.7
65 X 16	8.2	125 x 20	19.6
65 X 20	10.2	125 x 25	24.5
65 X 25	12.8	125 x 32	31.4
65 X 32	16.3	150 x 6	7.06
65 X 40	20.41	150 x 8	9.42
75 X 6	3.5	150 x 10	11.8
75 X 8	4.7	150 x 12	14.1
75 X 10	5.9	150 x 16	18.8
75 X 12	7.1	150 x 20	23.6
75 X 16	9.4	150 x 25	29.5
75 X 20	11.8	150 x 32	37.7
75 X 25	14.7	200 x 6	9.42
75 X 32	18.8	200 x 8	12.56
75 X 40	23.55	200 x 10	15.7
75 x 50	29.43	200 x 12	18.8
100 x 6	4.7	200 x 16	25.1
100 x 8	6.3	200 x 20	31.4
100 x 10	7.8	200 x 25	39.2
100 x 12	9.4		

13
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TUBES (SHS)

THICKNESS	WEIGHT KG/MTR	THICKNESS	WEIGHT KG/MTR
25X25 mm			
1.6 mm	1.120	2.0 mm	1.800
2.0 mm	1.360	2.6 mm	2.260
2.6 mm	1.690	3.2 mm	2.690
3.2 mm	1.980		
38X38 mm			
2.0 mm	2.180	2.9 mm	4.090
2.6 mm	2.750	3.2 mm	3.490
3.2 mm	3.290	4.0 mm	4.200
4.0 mm	5.030		
49.5 x 49.5 mm			
2.6 mm	3.690	2.9 mm	5.030
2.9 mm	4.070	3.2 mm	5.500
3.6 mm	4.930	4.0 mm	6.710
4.5 mm	5.950		
72x72mm			
3.2 mm	6.710	4.0 mm	9.220
4.0 mm	8.220	4.8 mm	9.660

1
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TUBES (SHS)

THICKNESS	WEIGHT KG/MTR	THICKNESS	WEIGHT KG/MTR
91.5X91.5 mm			
3.6 mm	9.670	4.5 mm	11.880
5.4 mm	14.010		
100X100 mm			
4.0 mm	11.730	5.0 mm	14.410
6.0 mm	16.980		
140X140 mm			
4.8 mm	19.910	5.4 mm	22.230
6.0 mm	24.520	8.00 mm	31.860
113.5 x 113.5 mm			
4.8 mm	15.920	5.4 mm	17.740

2
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TUBES (SHS)

THICKNESS	WEIGHT KG/MTR	THICKNESS	WEIGHT KG/MTR
132 x 132 mm			
4.8 mm	16.710	5.4 mm	20.880
50 x 25 mm			
2.0	2.150	2.6	2.710
3.2	3.240	4.0	3.880
60 x 40 mm			
2.6	3.730	2.9	4.120
3.6	4.980	4.5	6.020
66 x 33 mm			
2.6	3.690	2.9	4.070
3.6	4.930	4.5	6.950
115 x 60 mm			
3.6	9.220	4.5	11.320
5.4	13.330	6.0	14.630
160x 80 mm			
4.8	16.990	5.4	18.840
6.0	20.750	8.0	26.840

3
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TUBES (SHS)

THICKNESS	WEIGHT KG/MTR	THICKNESS	WEIGHT KG/MTR
80 x 40 mm			
2.6	4.550	2.9	5.030
3.2	5.500	4.0	6.710
4.8	7.850		
96 x 48 mm			
3.2	6.710	4.0	8.220
4.8	9.660		
120 x 60 mm			
3.2	8.510	3.6	9.500
4.5	11.670		
145 x 82 mm			
4.8	15.920	5.4	17.740

4
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TUBES (SHS)

THICKNESS	WEIGHT KG/MTR	THICKNESS	WEIGHT KG/MTR
172 X 92 mm			
4.8	18.710	5.4	20.880
200 x 100 mm			
4.0	18.010	5.0	22.260
6.0	26.400	7.0	30.440
8.0	34.380		
220 x 140 mm			
4.0	21.780	5.0	26.970
6.0	32.050	7.0	37.030
260 x 180 mm			
4.0	26.810	5.0	33.250
6.0	50.430	7.0	58.380

5
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PIPE

NB AND SERIES	OUTSIDE DIAMETER	WALL THICKNESS	WEIGHT			
	MIN	MAX	MM	SWG	KG/M	
15	L	21.0	21.4	2.0	14	0.95
	M	21.0	21.8	2.6	12	1.21
	H	21.0	21.8	3.2	10	1.44
20	L	26.4	26.9	2.3	13	1.38
	M	26.5	27.3	2.6	12	1.56
	H	26.5	27.3	3.2	10	1.87
25	L	32.2	33.8	2.6	12	1.98
	M	33.3	34.2	3.2	10	2.41
	H	33.3	34.2	4.0	8	2.93
32	L	41.9	42.5	2.6	12	2.54
	M	42.0	42.9	3.2	10	3.10
	H	42.0	42.9	4.0	8	3.79
40	L	47.8	48.4	2.9	11	3.23
	M	47.8	48.8	3.2	10	3.56
	H	47.9	48.8	4.0	8	4.37
50	L	59.6	60.2	2.9	11	4.08
	M	59.7	60.8	3.6	9	5.03