

**CHEMICAL COMPOSITION AND PHYSICAL PROPERTIES OF STAINLESS STEEL TYPES**

AISI Type No	Chemical Composition %								
	C Max	Si Max	Mn Max	P Max	S Max	Cr	Ni	Mo	Others
304	0.08	1.00	2.00	0.040	0.030	18.00 - 20.00	8.00 - 11.00		
304.L	0.03	10.00	2.00	0.040	0.030	18.00 - 20.00	9.00 - 12.00		
309	0.20	1.00	2.00	0.040	0.030	22.00 - 24.00	12.00 - 15.00		
309 S	0.08	1.00	2.00	0.040	0.030	22.00 - 24.00	12.00 - 15.00		
310	0.25	1.50	2.00	0.040	0.030	24.00 - 26.00	19.00 - 22.00		
310 S	0.08	1.50	2.00	0.040	0.030	24.00 - 26.00	19.00 - 22.00		
316	0.08	1.00	2.00	0.040	0.030	16.00 - 18.00	11.00 - 14.00	2.00 - 3.00	
316 L	0.03	1.00	2.00	0.040	0.030	16.00 - 19.00	13.00 - 16.00	2.00 - 3.00	
321	0.08	1.00	2.00	0.040	0.030	17.00 - 19.00	9.00 - 12.00		Ti or Ti, As 5xC
430	0.12	0.75	1.00	0.040	0.030	16.00 - 18.00			

WEIGHTS OF STAINLESS STEEL BARS							
Size mm	Round Kg/m	Square Kg/m	Hexagone Kg/m	Size mm	Round Kg/m	Square Kg/m	Hexagone Kg/m
8	0,395	0,532		56	19,335	24,618	21,319
9	0,499	0,636		60	22,195	28,26	24,474
10	0,617	0,785		65		33,166	28,723
12	0,888	1,13	1,149	70	30,21	38,456	33,312
15	1,387	1,766	1,74	75		44,156	38,24
20	2,466	3,14	2,998	80	39,458	50,24	43,509
25	3,853	4,906	4,249	85	44,545	56,71	61,355
30	5,549	7,065	6,118	90	49,939	70,845	
32	6,313	8,038	6,961	95			
35	7,553	5,075	8,328	100	61,654	78,5	67,983
38	8,903	11,335	9,817	105	67,973	86,46	74,951
40	9,86	12,65	10,877	110	71,601	94,985	81,259
45	12,485		13,767	115	81,537	103,816	89,907
50	15,413	19,625	16,996	120	88,781	113,04	97,895
55	18,65			125	96,337	112,656	





## STAINLESS STEEL FLAT BAR WEIGHT SCHEDULE

DIN 1016, 1017, 1543

Thickness size	2	3	4	5	6	8	10	12	15
10	0.160	0.240	0.320	0.400					
15	0.240	0.360	0.480	0.600					
20	0.320	0.480	0.640	0.800	0.950	1.270		Kg/m	
25	0.400	0.600	0.800	0.990	1.190	1.590			
30	0.480	0.720	0.950	1.190	1.430	1.910	2.390		
35	0.500	0.830	1.110	1.390	1.670	2.230	2.780		
40	0.640	0.950	1.270	1.590	1.910	2.540	3.180	3.820	
45	0.720	1.070	1.430	1.790	2.150	2.860	3.580	4.290	
50	0.800	1.190	1.590	1.990	2.390	3.180	3.980	4.770	
60		1.430	1.910	2.390	2.860	3.820	4.770	5.720	
70		1.670	2.230	2.780	3.340	4.450	5.570	6.680	
80		1.910	2.540	3.180	3.820	5.090	6.360	7.630	
90		2.150	2.800	3.580	4.290	5.720	7.160	8.590	
100		2.390	3.180	3.980	4.770	6.360	7.950	9.540	11.930
110			3.480	4.370	5.250	7.000	8.750	10.490	13.120
120			3.800	4.770	5.720	7.630	9.540	11.450	14.310
130			4.120	5.180	6.200	8.270	10.340	12.400	15.500
140				5.570	6.680	8.900	11.130	13.360	16.700
150				5.960	7.160	9.540	11.930	14.310	17.890
160				6.360	7.630	10.180	12.720	15.260	19.080
180				7.160	8.590	11.450	14.310	17.170	21.470
200				7.950	9.540	12.720	15.900	19.080	23.850
250				9.940	11.940	15.900	19.880	23.850	29.810

## STAINLESS STEEL RECTANGULAR PIPE WEIGHT SCHEDULE

Dimension mm	T H I C K N E S S							
	1.0 mm	1.2 mm	1.5 mm	2.0 mm	3.0 mm	4.0 mm	5.0 mm	6.0 mm
20 x 10	0.453	0.538	0.661					
20 x 15	0.533	0.634	0.781					
25 x 15	0.613	0.729	0.900	1.175				
28 0 12	0.613	0.729						
30 x 10	0.613	0.729	0.900					
30 x 15	0.693	0.825	1.020	1.035				
30 x 20	0.772	0.821	1.140	1.494				
35 x 15	0.772	0.921	1.140					
35 x 20	0.852	1.017	1.259	1.654				
40 x 15	0.852	1.017	1.259	1.654				
40 x 20	0.932	1.112	1.379	1.813				
40 x 30	1.091	1.303	1.618	2.132				
50 x 20	1.091	1.303	1.618	2.132				
50 x 25		1.39	1.733	2.292				
50 x 30	1.251	1.495	1.857	2.451				
60 x 20		1.495	1.857	2.451				
60 x 30	1.410	1.686	2.097	2.770	4.081			
60 x 40		1.878	2.336	3.089	4.559			
70 x 20		1.686	2.097	2.770				
70 x 30	1.570	1.878	2.336	3.089				
80 x 40		2.261	2.814	3.727	5.516			
80 x 60			3.293	4.365	6.473			
100 x 40			3.293	4.365	6.473			
100 x 50			3.532	4.684	6.952			
100 x 60			3.771	5.003	7.430	9.807		
100 x 80				5.642	8.387	11.083	13.728	
120 x 60				5.642	8.387	11.083	13.728	16.324
120 x 80				6.279	9.343	12.358	15.322	18.236
150 x 50				6.279	9.343	12.358	15.322	18.236
200 x 100				9.469	14.129	18.738	23.297	27.806
200 x 150				11.064	16.521	21.928	27.285	32.592
250 x 100				11.064	16.521	21.928	27.285	32.592

## STAINLESS STEEL SQUARE PIPE WEIGHT SCHEDULE

Dimension mm	T H I C K N E S S							
	1.0 mm	1.2 mm	1.5 mm	2.0 mm	3.0 mm	4.0 mm	5.0 mm	6.0 mm
10 x 10	0.294							
12 x 12	0.358							
15 x 15	0.453	0.538	0.661					
16 x 16	0.485	0.576	0.709	0.920				
18 x 18	0.549	0.653	0.805					
20 x 20	0.613	0.729	0.900	1.175				
25 x 25	0.772	0.921	1.140	1.494				
30 x 30	0.932	1.112	1.379	1.813	3.123			
38 x 38	1.187	1.418	1.762	2.324				
40 x 40	1.251	1.495	1.857	2.451	3.602			
45 x 45	1.410	1.686	2.097	2.770	4.081			
50 x 50	1.570	1.878	2.336	3.089	4.559			
60 0 60			2.814	3.727	5.516			
80 x 80			3.771	5.003	7.430	9.807		
100 x 100			4.728	6.279	9.343	12.358	15.322	18.236
120 x 120				7.555	11.257	14.910	18.512	22.064
150 x 150				9.469	14.129	18.738	23.297	27.806
175 x 175				11.064	16.521	21.928	27.285	32.592