

BRODER METALS GROUP WEIGHT CHART



KGs per metre for Broder Metals Stocked Grades

Diameter		Grade								
mm	Inches	286	625	718	825	BMG-AT41®	C276	MP35N	A4-80 (316)	Alloy 20
9.53	0.38	0.565	0.602	0.584	0.581	0.559	0.634	0.601	0.571	0.578
10.00	0.39	0.622	0.663	0.643	0.639	0.615	0.698	0.662	0.628	0.636
12.70	0.50	1.003	1.069	1.037	1.031	0.992	1.126	1.068	1.013	1.026
15.88	0.63	1.568	1.672	1.622	1.612	1.551	1.760	1.670	1.584	1.604
19.05	0.75	2.256	2.406	2.334	2.320	2.232	2.532	2.403	2.280	2.309
22.22	0.88	3.070	3.273	3.176	3.156	3.036	3.445	3.269	3.102	3.141
25.00	0.98	3.886	4.143	4.020	3.996	3.844	4.361	4.138	3.927	3.976
25.40	1.00	4.011	4.277	4.150	4.125	3.968	4.502	4.272	4.054	4.104
28.58	1.13	5.078	5.414	5.254	5.222	5.023	5.700	5.408	5.132	5.196
31.75	1.25	6.267	6.682	6.484	6.445	6.199	7.035	6.674	6.334	6.413
34.93	1.38	7.586	8.088	7.848	7.800	7.503	8.514	8.078	7.666	7.762
38.10	1.50	9.025	9.622	9.337	9.280	8.927	10.130	9.611	9.121	9.235
41.28	1.57	10.592	11.293	10.958	10.892	10.477	11.888	11.280	10.704	10.838
44.45	1.75	12.284	13.097	12.709	12.632	12.151	13.788	13.082	12.414	12.570
47.62	1.87	14.099	15.032	14.587	14.498	13.945	15.824	15.014	14.248	14.426
50.80	2.00	16.044	17.106	16.600	16.498	15.870	18.008	17.086	16.215	16.417
55.00	2.17	18.807	20.052	19.458	19.339	18.603	21.109	20.028	19.007	19.244
57.15	2.25	20.306	21.650	21.009	20.881	20.086	22.792	21.625	20.522	20.778
60.00	2.36	22.382	23.864	23.157	23.015	22.139	25.122	23.835	22.620	22.902
63.50	2.50	25.069	26.729	25.937	25.779	24.797	28.138	26.697	25.335	25.652
69.80	2.75	30.291	32.296	31.339	31.148	29.961	33.998	32.257	30.612	30.995
75.00	2.95	34.972	37.287	36.182	35.962	34.592	39.253	37.243	35.343	35.785
76.20	3.00	36.100	38.490	37.349	37.121	35.708	40.519	38.444	36.483	36.939
82.55	3.25	42.367	45.172	43.834	43.566	41.907	47.553	45.118	42.817	43.352
88.90	3.50	49.136	52.389	50.837	50.526	48.602	55.151	52.327	49.657	50.278
95.25	3.75	56.406	60.140	58.359	58.002	55.793	63.311	60.069	57.005	57.717
100.00	3.94	62.172	66.288	64.324	63.932	61.497	69.783	66.209	62.832	63.617
101.60	4.00	64.178	68.426	66.399	65.994	63.480	72.034	68.345	64.859	65.669
114.30	4.50	81.225	86.602	84.036	83.523	80.342	91.168	86.499	82.087	83.113
127.00	5.00	100.278	106.916	103.749	103.115	99.188	112.553	106.789	101.342	102.609
139.70	5.50	121.336	129.368	125.536	124.769	120.018	136.189	129.215	122.623	124.156
152.40	6.00	144.400	153.958	149.398	148.486	142.831	162.076	153.776	145.932	147.756
165.10	6.50	169.469	180.687	175.335	174.265	167.628	190.214	180.473	171.268	173.408
177.80	7.00	196.544	209.554	203.347	202.106	194.409	220.603	209.306	198.630	201.113
203.20	8.00	256.711	273.704	265.596	263.975	253.922	288.135	273.379	259.435	262.678
228.60	9.00	324.900	346.406	336.145	334.093	321.370	364.671	345.996	328.347	332.452
254.00	10.00	401.111	427.662	414.994	412.461	396.753	450.211	427.155	405.367	410.434
304.80	12.00	577.599	615.833	597.592	593.944	571.324	648.303	615.104	583.728	591.025
355.60	14.00	786.177	838.218	813.389	808.423	777.636	882.413	837.225	794.519	804.451

Alloys
 Super Alloys
 Titanium
 Stainless
 Billet
 Bar
 Forgings
 Plate
 Sheet
 Tube
 Pipe
 Oil & Gas
 Petrochem
 Powergen
 Medical
 Marine
 Aerospace



BRODER METALS GROUP SPECIFICATIONS AT A GLANCE

Grade	Specifications	Condition	Mechanical Properties							
			Tensile Strength (min)		Yield Strength - 0.2% Offset (min)		Elong in 4D (min)	RoA (min)	Hardness	
			KSI	MPA	KSI	MPA	%	%	HB	HRC
286	ASTM A453 660 A / D	Solution annealed & aged	130	895	105	725	15	18	248 - 321	29 - 35
625	ASTM B446	Solution annealed	120	828	60	414	30	35	187 - 321	12 - 34
718	API 6A CRA	Solution annealed & aged	150	1034	120	827	20	35	298 - 363	32 - 40
718	ASTM B637	Solution annealed & aged	165	1275	150	1034	12	15	298 - 32	32 - 40
K500	ASTM B865-04	Hot worked, solution treated & precipitation treated	140	965	100	690	17	35	253 - 327	25 - 35
BMG-AT41®	BS EN 10269:1999 Steel No 1.7729 20CrMoVTiB4-10 + further testing	Sub critical annealed, hardened and tempered	119	820	96	660	15	50	-	-
Alloy 20	ASTM B473	Annealed	80	551	35	241	30	50	325 Max	35 Max
C276	ASTM B574	Annealed	100	690	41	283	40	-	-	-
MP35N	NACE MR01.75/ ISO 15156-2:2009	As manufactured	210	1447	200	1379	10	40	409 - 486	44 - 51
MP35N	AMS 5844 / 5845	Solution treated & cold drawn (& aged for AMS 5845 only)	260	1792	230	-	8	35	409 max	44 max
A4-80	DIN EN ISO 3506-1:1997	Cold worked	116	800	87	600	30	-	-	-
Broder Nab22	ASTM B150/ B150M: C63200 to TQ-50	Quench hardened & temper annealed	90	620	50	345	15	-	-	-
BMG-HSCNIB	C22400 CuNi14Al3, DTD900/ 4805, 2.1504	As manufactured	120	820	95	655	10	-	226 min	21 min