

Grey Iron 2P

Typical Composition		Min.	Max.
	Carbon	3.00	3.50
	Silicon	2.00	2.60
	Manganese	0.40	0.70
	Chromium	0.10	0.60
	Copper	0.30	1.00
	Phosphorous	0	0.10

Related Specifications

	AS 1830-1986 T260
	BS 1452 Grade 17
	ASTM A48 Classes 35-40
	DIN 1691 GG35
	JIS FC 25

A grey cast iron exhibiting good strength and wear resistance

Typical Mechanical Properties

	Tensile Strength	220-260 MPa
	Hardness	217-269 BHN
	Stocked Sizes	Available in a wide range of centrifugally cast hollow sections see size chart for details. Also available in a limited range of continuous cast solids (see below).
	Colour Code	Blue

Ductile Iron 3D

Typical Composition		Min.	Max.
	Carbon	3.30	3.80
	Silicon	2.30	2.70
	Manganese	0.20	0.40
	Magnesium	0.03	0.05

Related Specifications

	AS 1831-1985 400-250-12
	BS 2789 SNG 27/12
	ASTM A.536 65-45-12
	DIN 1693 GGG40
	JIS FC D45

A spheroidal graphite cast iron that possesses high elasticity and resistance to impact. Suitable for applications involving thermal and mechanical shock.

Typical Mechanical Properties

	Tensile Strength	415 MPa
	Hardness	187 BHN max
	Stocked Sizes	Available in continuous cast iron bar in sizes 40 - 360 mm diameter (see below).
	Colour Code	Green

Grey Iron 4E

Typical Composition		Min.	Max.
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	Carbon	3.00	3.70
	Silicon	2.20	2.90
	Manganese	0.20	0.70
	Copper	0	0.30
	Phosphorous		0.10

Related Specifications

	AS 1830- 1985 T260
	BS 1452 Grade 17
	ASTM A48 Classes 35-40
	DIN 1691 GG35
	JIS FC 25

A free machining grey cast iron, not suitable in applications where surface wear resistance is required.

Typical Mechanical Properties

	Tensile Strength	220-260 MPa
	Hardness	170-220 BHN
	Stocked Sizes	Available in continuous cast bar in sizes: 20-385 mm dia 40-200 mm square
	Colour Code	Yellow

Continuous Cast Iron Flat Bar Grey Iron Grades 2P & 4E

Cast Size (mm)	Finished Size (mm)	Weight Per Metre (kg)
45 x 30	41 x 26	10.5
55 x 30	51 x 26	12.8
80 x 30	76 x 26	18.7
80 x 55	76 x 51	33.8
90 x 28	89 x 26	20.7
105 x 30	101 x 26	24.3
105 x 55	101 x 51	44.3
105 x 80	101 x 76	64.3
125 x 35	121 x 31	0.033
160 x 55	154 x 51	67.3
180 x 165	176 x 161	224.2

Weights are Approximate only
Nominal Bar Lengths: 2 metres
Bar Finish: As Cast

Continuous Cast Iron Round Bar Grey Iron Grades 2P & 4E

Cast Diameter (mm)	Finished Diameter (mm)	Weight Per Metre (kg)
20	18	2.6
25	23	3.9
30	27	5.6
35	32	7.5
40	37	9.5
45	42	12.1
50	47	15.1
55	52	18.4
60	57	21.7
65	62	23.2
70	67	29.2

75	72	33.5
80	77	38.1
85	82	43
90	87	48.2
95	92	53.5
100	97	59.4
105	103	65.6
110	108	72.2
115	113	78.8
120	118	85.7
125	123	92.9
130	128	100.1
135	133	108.3
140	138	114.9
145	143	124.7
150	146	134.6
155	151	144.4
160	156	151
165	161	160.8
170	166	170.7
175	171	180.5
180	172	193.6
185	177	203.5
190	182	213.3
200	192	236.3
205	198	249.4
210	203	262.6
220	213	288.8
230	223	315.1
240	233	341.3
250	243	370.9
260	253	397.1
285	280	475.9
310	305	564.5
335	330	659.7
360	355	758.1
385	380	869.7
410	405	984.6
435	430	1106
460	455	1237.3
490	485	1404.7
510	505	1519.6
535	530	1670.5
560	555	1831.4
585	580	1998.7
610	605	2169.4
Weights are Approximate only Nominal Bar Lengths: 3 metres Bar Finish: As Cast		
Continuous Cast Iron Square Bar Grey Iron Grades 2P &4E		
Cast	Finished	Weight Per

Size (mm)	Size (mm)	Metre (kg)
25 x 25	20 x 20	5.2
30 x 30	26 x 26	6.6
40 x 40	36 x 36	12.1
50 x 50	46 x 46	19.7
55 x 55	51 x 51	22.6
60 x 60	56 x 56	27.9
65 x 65	61 x 61	32.8
80 x 80	76 x 76	49.2
85 x 85	81 x 81	55.8
90 x 90	86 x 86	63
105 x 105	101 x 101	84
130 x 130	126 x 126	129.6
155 x 155	151 x 151	183.7
180 x 180	176 x 176	246
205 x 205	201 x 201	318.5
235 x 235	231 x 231	418.5
255 x 255	251 x 251	492.6
260 x 260	255 x 255	512
305 x 305	300 x 300	688.8
310 x 310	305 x 305	727.8

Weights are Approximate only
Nominal Bar Lengths: 2 metres
Bar Finish: As Cast

**Continuous Cast Iron Round Bar
Ductile Iron (SG) Grade 3D**

Cast Diameter (mm)	Finished Diameter (mm)	Weight Per Metre (kg)
40	33	9.51
45	38	12.14
50	43	15.09
55	48	18.37
60	53	21.65
65	58	25.26
70	63	29.19
75	68	33.46
80	73	38.05
85	78	42.97
90	83	48.21
95	88	53.46
100	93	59.37
105	98	65.6
110	103	72.17
115	108	78.71
120	113	85.62
125	118	92.81
130	123	100.03
135	128	108.25
140	133	114.81
145	138	124.62
150	143	134.48
155	148	144.3

160	153	150.87
165	158	160.71
170	163	170.57
175	168	180.42
180	173	193.51
185	178	203.35
190	183	213.26
195	188	224.66
200	193	236.14
205	198	249.24
210	203	262.4
220	213	288.73
230	223	314.78
240	233	340.96
250	243	370.62
260	253	405.94
285	285	475.36
310	310	564.54
335	335	658.63
360	360	757.51
385	385	870.03
410	410	984.98
435	435	1104.38
460	460	1237.74
510	510	1554.5
610	610	2172.19

Weights are Approximate only
Nominal Bar lengths: 40mm to 260mm Dia. = 2 metres
285mm to 610 mm Dia = 1 metre
Bar Finish: 40mm to 260 mm Dia = As Cast
285mm to 610mm = Proof Machined

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