



# ParkerSteel COLOUR CODES



## Bright & Black Carbon Alloy Steel Bars

BS EN 10277:1999		BS 970:1991	BS970:1955	Colour	
NUMBER	NAME				
1	1.0401	C15	080A15	EN 3B / EN 32B	Blue
2	1.0715	11SMn30	230M07	EN 1A Freecutting	Green
3	1.0718	11SMn30Pb	230M07Pb	EN 1A Leaded	Magenta
4	1.0727	46S20	212A42	EN 8DM	Orange
5	1.0402/1.1151	C22/C22E	070M20	EN 3B	Blue/Red
6	-	-	214M10	EN 202	Red/Green
7	1.0511/1.1186	C40/C40E	080M40	EN 8	Yellow
8	-	-	080A42	EN 8D	Yellow/Green
9	1.0535/1.1203	C55/C55E	070M55	EN 9	Yellow/Blue
10	-	-	Key Steel	EN 6A Key Steel	Red/Yellow
11	1.0721	10S20	210M15	EN 32M	Red/Brown
12	1.0407/1.1148	C16/C16E	080M15	EN 32	Red
13	-	-	606M36T	EN 16MT	White/Brown
14	-	-	605M36T	EN 16T	White
15	1.7225	42CrMo4	708M40T	EN 19T	Yellow/White
16	1.7225	42CrMo4	709M40 Annealed	EN 19 Annealed	Yellow/White/Pink
17	1.6582	34CrNiMo6	817M40T	EN 24T	Brown
18	1.6582	34CrNiMo6	817M40 Annealed	EN 24 Annealed	Brown/Green
19	1.5752	15NiCr13	655M13	EN 36	Red/White
20	-	-	665M17	EN 34	Black/Yellow
21	1.7361	32CrMo12	722M24	EN 40B	Brown/Silver
22	-	-	AISI/SAE8620*	EN 362	Purple/Yellow
23	1.3505	100Cr6	535A99*	EN 31 (Nearest Standard)	Purple/White
24	-	-	Supacut 45R*	-	Blue/Gold
25	-	-	Supacut 55T*	-	RedGold

\* Not to BS 970

## Stainless Steel Bars

BS EN 10088-3:1995		BS 970-1:1991	Colour	
NUMBER	NAME			
1	1.4305	X8CrNiS19-9	303S31	White
2	1.4301	X5CrNi18-10	304S11	Green
3	1.4401	X5CrNiMo17-12-2	316S11	Orange
4	1.4541	X6CrNiTi18-10	321S31	Magenta
5	1.4005	X12CrS13	416S21	Red
6	1.4057	X17CrNi16-2	431S29	Brown
7	1.4125	X105CrMo17	440C	Blue

## Aluminium Bars

BS EN 755 pt 1-8:1996 & pt 9:2001		BS 1474:1987	Colour	
NUMBER	NAME			
1	AW-6082	EN AW-AISi1MgMn	HE30	Red
2	AW-6063	EN AW-AIMg0,7Si	HE9	Blue
3	AW-2011	EN AW-AICu6BiPb	FC1	Orange
4	AW-2014	EN AW-AICu4SiMg	HE15	Green
5	AW-2030	EN AW-AICu4PbMg	-	Magenta
6	AW-6005	EN AW-AISiMg	-	Yellow
7	AW-7075	EN AW-AIZn5,5MgCu	-	White
8	AW-6262	AIMg1SiPb	-	Pink

## Brass Bars

BS EN 12164:1998		BS 2874:1986	Colour	
NUMBER	NAME			
1	CW614N	CuZn39Pb3	CZ121	Green
2	CW617N	CuZn40Pb2	CZ122	Red
3	CW606N	CuZn37Pb2	CZ131	White
4	CW721R	CuZn40Mn1Pb1AlFeSn	CZ114	Yellow
5	CW712R	CuZn36Sn1Pb	CZ112	Blue

For a full list of our stock range contact our sales team on 08705 783333, or FreeFax 0800 521932, and request a current Technical Stocklist or a convenient Pocket Stocklist. Alternatively, you can visit [www.parkersteel.co.uk](http://www.parkersteel.co.uk) to view and order stock lengths, as well as get your material cut to length.

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STEEL STOCKHOLDERS



# ParkerSteel COLOUR CODES



## Bright & Black Carbon Alloy Steel Bars

BS EN 10277:1999		BS 970:1991	BS970:1955	Guide to specifications
NUMBER	NAME			
1	1.0401 C15	080A15	EN 3B / EN 32B	For general engineering, machinable & weldable. Low tensile for lightly stressed components
2	1.0715 11SMn30	230M07	EN 1A Freecutting	Freecutting steel for fast machining, long tool life and good surface finish
3	1.0718 11SMn30Pb	230M07Pb	EN 1A Leaded	Leaded freecutting steel for even faster machining & longer tool life. Excellent surface finish of machined components
4	1.0727 46S20	212A42	EN 8DM	A freecutting version of 080M40 medium carbon steel giving improved machining properties
5	1.0402/1.1151 C22/C22E	070M20	EN 3B	A general purpose, low tensile, mild steel for manufacturing lightly stressed components including studs, bolts, etc.
6	-	214M10	EN 202	A semi freecutting higher tensile case-hardening steel for production runs on automatics and capstans. Used for gears, cams, rollers, etc.
7	1.0511/1.1186 C40/C40E	080M40	EN 8	A medium tensile weldable steel. Fair resistance to wear. Suitable for general engineering components
8	-	080A42	EN 8D	A minimum 40 In steel. As 080M40 but has a closer chemical composition and is supplied to analysis only
9	1.0535/1.1203 C55/C55E	070M55	EN 9	Medium tensile mild steel with good wear resistance. Suitable for turned parts where toughness is not of prime importance
10	-	Key Steel	EN 6A Key Steel	For making key ways, keys and general engineering use, normally supplied to a + tolerance to BS4235 & BS 46
11	1.0721 10S20	210M15	EN 32M	A semi freecutting carbon case-hardening steel with improved machining properties. Suitable for use on CNC lathes & automatics
12	1.0407/1.1148 C16/C16E	080M15	EN 32	A carbon case hardening steel for use where the use or cost of an alloy steel could not be justified
13	-	606M36T	EN 16MT	A resuphurised Manganese-Molybdenum freecutting alloy steel. Longer tool life & a very good surface finish. Supplied in 'T' condition.
14	-	605M36T	EN 16T	A Manganese-Molybdenum high tensile alloy steel, hardened and tempered to the 'T' condition. Excellent ductility without brittleness
15	1.7225 42CrMo4	708M40T	EN 19T	A medium carbon low alloy steel supplied in the hardened and tempered condition, can be flame hardened for increased wear resistance
16	1.7225 42CrMo4	709M40 Annealed	EN 19 Annealed	A medium carbon low alloy steel used where hardness, ductility and shock resistance are required
17	1.6582 34CrNiMo6	817M40T	EN 24T	A 1.12% nickel chrome direct hardening steel supplied hardened and tempered to the 'T' condition leaving the bars easy to machine
18	1.6582 34CrNiMo6	817M40 Annealed	EN 24 Annealed	As above but supplied in the annealed condition. For subsequent hardening and tempering after machining
19	1.5752 15NiCr13	655M13	EN 36	A 3.14% nickel chrome case hardening steel. Can be hardened and tempered to a very deep case with a very tough core
20	-	665M17	EN 34	A medium alloy case hardening steel which after carburising and hardening give a hard wearing case and a core strength of 700N/mm <sup>2</sup>
21	1.7361 32CrMo12	722M24	EN 40B	An alloy steel with good resistance to shock, the low temperature nitriding process gives a hard clean surface free from distortion
22	-	AISI/SAE8620	EN 362	A low alloy case hardening steel conforming to American specifications. High wear resistance and a strong core after carburising
23	1.3505 100Cr6	535A99	EN 31	A high carbon-chromium bearing steel for bearing rings and rolling elements
24	-	Supacut 45R	-	Consistant and optimum machinability with maximum response to induction hardening. Can also be manufactured to the heat treated condition 'R'
25	-	Supacut 55T	-	A superior alloy freecutting steel. Designed to give high tensile, high impact resistance and longer tool life

## Stainless Steel Bars

BS EN 10088-3:1995		BS 970-1:1991	Guide to specifications
NUMBER	NAME		
1	1.4305 X8CrNiS19-9	303S31	Good machining qualities. Can be welded but subsequent heat treatment is recommended to retain corrosion resistance. Fair forming qualities
2	1.4301 X5CrNi18-10	304S11	Reasonable weldability, general resistance to corrosion, excellent for polishing
3	1.4401 X5CrNiMo17-12-2	316S11	Stainless steel with added molybdenum for greatly improved corrosion resistance. Used in chemical, marine & the food preparation industry
4	1.4541 X6CrNiTi18-10	321S31	High resistance to corrosion. Work hardens fairly rapidly. Used in general engineering, petrol chemical & catering industries
5	1.4005 X12CrS13	416S21	13% Chrome type. Added selenium improves machining speeds. Will respond to thermal hardening and tempering. Not recommended for welding
6	1.4057 X17CrNi16-2	431S29	An 18% Cr, 2% Ni stainless steel which can be hardened and tempered. High tensile strength properties. Not recommended for welding
7	1.4125 X105CrMo17	440C	Martensitic, magnetic, Can be hardened. High carbon content for maximum hardness. Good corrosion resistance. Fair machinability

## Aluminium Bars

BS EN 755 pt 1-8:1996 & pt 9:2001		BS 1474:1987	Guide to specifications
NUMBER	NAME		
1	AW-6082 EN AW-AISIIMgMn	HE30	A structural alloy with good strength and good resistance to corrosion
2	AW-6063 EN AW-AIMg0,7Si	HE9	Medium strength alloy for architectural extrusions. Very good for complicated shapes
3	AW-2011 EN AW-AICu6BiPb	FC1	A freecutting alloy for use in automatic lathes
4	AW-2014 EN AW-AICu4SiMg	HE15	Combines high strength with good ductility in the solution treated condition. Stressed components of all types in aircraft
5	AW-2030 EN AW-AICu4PbMg	-	Excellent machining alloy. Limited corrosion resistance
6	AW-6005 EN AW-AISiMg	-	A medium strength alloy. Heat treatable. Good weldability and corrosion resistance. Used for intricate profiles, e.g. beer barrels
7	AW-7075 EN AW-AIZn5,5MgCu	-	Heat treatable. Age hardens naturally, therefore will recover properties in heat effected zones after welding. Susceptible to stress corrosion
8	AW-6262 AIMg1SiPb	-	High strength. Very good machining. Excellent corrosion resistance

## Brass Bars

BS EN 12164:1998		BS 2874:1986	Guide to specifications
NUMBER	NAME		
1	CW614N CuZn39Pb3	CZ121	High speed machining brass. Excellent machinability, very limited cold working. Also used for hot stamping
2	CW617N CuZn40Pb2	CZ122	A freecutting brass. Most popular alloy for hot stamping. Excellent machinability but very limited cold ductility
3	CW606N CuZn37Pb2	CZ131	A freecutting brass with improved ductility. Good machinability and some cold workability. Used for cold heading and riveting
4	CW721R CuZn39AlFeMn	CZ114	A manganese bronze high tensile general purpose Brass with superior corrosion resistance. Used for heavy engineering. Poor machinability
5	CW712R CuZn38Si1	CZ112	Leaded Naval Brass. The addition of tin improves corrosion resistance, especially in sea water. Lead improves machinability