

# 300 Plus<sup>®</sup> (steel)

NATURAL

NATURAL

## CHARACTERISTICS

Tensile Strength (MPa)

440 - 480

Yield Strength (MPa)

280-320

## EQUIVALENTS

ASTM

EURO

BS

JIS

Mn

C

Si

P

S

A633A

EN10025

4360-43A

1.60

0.25

0.5

0.04

0.04

## NOTES

Hot Rolled Steel Sections are produced in Australia by Infrabuild to AS3679 and AS 3678. Further information visit:  
<https://www.edconsteel.com.au/wp-content/uploads/2020/10/edcon-steel-hotrolled.pdf>

## DESCRIPTION

300PLUS<sup>®</sup> Steel is the standard grade manufactured for Hot Rolled Structural Steel Sections, Welded Beam Sections, Merchant Bar Rounds, Squares and Flats.

## APPLICATIONS

Extensive use in all forms of Construction, Engineering and Manufacturing.

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# EDCON STEEL

### Sydney Metro

Blacktown  
Brookvale  
Revesby

15 Carling Road Kings Park  
10/9-13 Winbourne Road Brookvale  
122 Milperra Road Revesby

### Rural

Bathurst  
Orange

51 Sydney Road Raglan  
23 Leewood Drive Orange

**1300 233 266**  
**edconsteel.com.au**

# C250LO (Hollow Sections)

Colour coded  
for thickness

Colour coded  
for thickness

## CHARACTERISTICS

Tensile Strength (MPa) 320

Yield Strength (Mpa) 250

## CHEMICAL ANALYSIS (%)

C	Si	Mn	P	S	Al	CE*		
0.04	0.005	0.19	0.006	0.005	0.015	0.07		
0.07	0.02	0.3	0.018	0.018	0.06	0.12		

## NOTES

\*CE stands for carbon equivalent which is a calculation on an actual composition using a formula. Steel with CE less than 0.39 in general to not require preheat.

## DESCRIPTION

This is the most common grade that Medium to Extra Heavy wall pipe will be supplied as. Extra Light and Light pipe typically conforms to C350LO

## APPLICATIONS

Handrails, Bollards, Power Poles

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# C350LO (Hollow Sections)

Colour coded  
for thickness

Colour coded  
for thickness

## CHARACTERISTICS

## CHEMICAL ANALYSIS (%)

Tensile Strength (MPa) Minimum 430

Yield Strength (Mpa) Minimum 350

C	Si	Mn	P	S	Al	CE*
0.13	0.005	0.65	0.01	0.005	0.02	0.24
0.17	0.02	0.8	0.025	0.015	0.055	0.3

## NOTES

\*CE stands for carbon equivalent which is a calculation on an actual composition using a formula. Steel with CE less than 0.39 in general to not require preheat.

## DESCRIPTION

C350LO is the grade that most Square and Rectangular Hollow Sections will conform to. Some Duragal® sections are available in Dualgrade C350LO/C450LO

## APPLICATIONS

Frames, Fencing, Posts and Columns

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# 1020

CUSTARD

CUSTARD

## CHARACTERISTICS

Hardness Supplied (HB) 142 - 119

Tensile Strength (Mpa) 410 - 480

Machinability Rating % 65

## EQUIVALENTS

BS	AISI/SAE	UNS	DIN	C	Si	Mn	P	S
970	1020	G10200	C22	0.15	0.35 max	0.3	0.05 max	0.05 max
070M20				0.25		0.9		

## NOTES

Known as Bright Mild Steel (BMS).  
Suits general purpose "mild steel" applications. Good balance of strength, ductility, toughness and weldability.

## POSSIBLE ALTERNATIVE GRADES

1018, 1030, 1214, 12L14

## APPLICATIONS

May be Hot Dip Galvanised provided Si below 0.05%. Readily Cold formed, may be case hardened but not induction or through Hardened. Used as Jack Handles, threaded bars, shafts and axles in lighter applications.

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# 1030

WHITE

WHITE

## CHARACTERISTICS

Hardness Supplied (HB) 164 - 147

Tensile Strength (Mpa) 500 - 560

Machinability Rating % 70

## EQUIVALENTS

BS	AISI/SAE	UNS	DIN	C	Si	Mn	P	S
970	1030	G10300	C30	0.25	0.35 max	0.30	0.05 max	0.05 max
080M30				0.35		0.90		

## CHEMICAL ANALYSIS (%)

### NOTES

Slightly higher strength and lower ductility than "mild steel". Provides more strength than 1020 while remaining reasonably ductile and weldable. Applications include shafts and Architectural fittings.

## POSSIBLE ALTERNATIVE GRADES

1018, 1020, 1214, 12L14

## APPLICATIONS

Cannot be Hot Dip Galvanised. Low Hardenability, not recommended for Case Hardening. Motor Shafts, Gate Hinges.

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# 1045

BLACK

BLACK

## CHARACTERISTICS

Hardness Supplied (HB)

300 - 540

Tensile Strength

600 - 690

Machinability Rating %

55

## POSSIBLE ALTERNATIVE GRADES

1040, 1045, 4140, 718 Impax

## EQUIVALENTS

BS

AISI/SAE

UNS

DIN

970

1045

G10450

C45

080A47

## CHEMICAL ANALYSIS (%)

C

Si

Mn

P

S

## NOTES

High strength with reasonable ductility and weldability. A grade which finds its greatest usage in hard chromed bars for hydraulic and pneumatic rams.

## APPLICATIONS

DO NOT GALVANISE. DO NOT COLD FORM. DO NOT CASE HARDEN.  
Used in Motor Shafts, Pump Shafts, Take Off Shafts, Rams.

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# 1045 Chrome Bar

BLACK

JADE

## CHARACTERISTICS

Surface Hardness 800-1000 HV (64-69 RC)

Surface Smoothness 0.1-0.3 um Ra

Surface Deposit 0.025-.050mm

## DESCRIPTION

1045 is a fully killed medium carbon steel and is the traditional product used in the manufacture of hard chrome bar.

## EQUIVALENTS

ASTM	DIN	BS	UNS	C	Si	Mn	S	P
-	-	-	-	0.45	0.3	0.7	0.03	0.03

## CHEMICAL ANALYSIS (%)

## NOTES

4140 Chrome bar is also available in selected sizes. The chrome plated surface can be easily damaged, therefore they are stored and delivered in a protective cardboard or plastic tube. It is important to leave this tube in place while handling, cutting and storing the product.

## APPLICATIONS

Chrome bar is used in standard cylinders, dump trucks, fork lifts, presses, gates and automotive doors, steering-gear systems, lifts, hydraulic platforms, cranes, drilling equipment and garbage compactors.

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# 4140

BLUEBELL

BLUEBELL

## CHARACTERISTICS

Tensile Strength (Mpa) 900

Hardness Supplied (HB) 270

Machinability Rating % 50

## EQUIVALENTS

ASTM	AISI	BS	JIS	C	Si	Mn	Cr	Mo
A29M	4140	970	4105	0.40	0.25	0.80	0.90	0.20
91 4140		EN19A						

## CHEMICAL ANALYSIS (%)

## NOTES

General purpose high tensile steel, used for axles, shafts, high tensile studs and bolts, gears and drilling rods. *Generally supplied hardened and tempered. Generally only available in round bars, may use 718 Impax for block and flats.*

## DESCRIPTION

4140 is a 1% Chromium - Molybdenum (Chrome-Moly) high tensile steel alloy bar. May be Known as 709 and 709M

## HEAT TREATMENT

Suitable for flame and induction hardening. Heat to 840 C - 875 C, hold until temperature is uniform throughout the section, soak for 10 to 15 minutes per 25 mm section, and quench in oil, water, or polymer as required.

840 - 875°C

HEAT COLOUR  
STRAW

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# 4340

ROSE PINK

BISCUIT

## CHARACTERISTICS

Tensile Strength (MPa)

850-1000\*

Brinell Hardness (HB)

248-302\*

\*Based on Condition T specifications

## DESCRIPTION

4340 is a Nickel, Chromium, Molybdenum steel for applications requiring high tensile strength and toughness values, particularly in large cross sections in the quenched and tempered condition.

## EQUIVALENTS

AS

DIN

BS

AISI

4340

1.6565

~EN24

4340

34CrNiMo6

~817 M 40

## CHEMICAL ANALYSIS (%)

C

Si

Mn

Ni

Cr

Mo

S

P

0.4

0.25

0.7

1.8

0.8

0.25

0.025

0.025

## NOTES

The addition of Molybdenum prevents the steel from being susceptible to temper brittleness. 4340 has a higher tensile and yield strength than 4140.

## APPLICATIONS

Components for the aircraft, automotive and general engineering industries. Examples of use include Propeller Shafts, Connecting Rods, Gear Shafts, Rotors & Discs.

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# EN26

CUSTARD

SIGNAL RED

## CHARACTERISTICS

## EQUIVALENTS

## CHEMICAL ANALYSIS (%)

Tensile Strength (MPa)

930-1080\*

ASTM

DIN

BS 970

C

Si

Mn

Ni

Cr

Mo

S

P

AS

1.6745

826 M 40

0.4

0.25

0.6

2.5

0.65

0.55

0.025

0.025

Brinell Hardness (HB)

269-331\*

X9940

40NiMoCr10-4

EN26

## NOTES

\*Based on Condition T specifications

EN26 has a higher strength than EN25

## DESCRIPTION

EN26 is a 2 1/2% Nickel Chromium Molybdenum alloy steel with higher Carbon content and is supplied in hardened and tempered condition.

## APPLICATIONS

EN26 is used for highly stressed components of large cross section for automotive and general engineering applications such as shafts, connecting rods, die block holders and heavy forgings where optimum strength is required.

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# 1214

ROSE PINK

ROSE PINK

## CHARACTERISTICS

Hardness Supplied (HB) 230 - 350

Tensile Strength (Mpa) 370 - 480

Machinability Rating % 158

## EQUIVALENTS

BS	AISI/SAE	UNS	DIN	C	Si	Mn	P	S
970	1213	G12130	9SMn28	0.15 max	0.10 max	0.80	0.04	0.25
220M07						1.20	0.09	0.35

## CHEMICAL ANALYSIS (%)

## NOTES

A widely used free machining steel which has reasonable ductility and weldability. Mainly used for items that require extensive machining.

## POSSIBLE ALTERNATIVE GRADES

1018, 1020, 1030, 12L14

## APPLICATIONS

Suitable for Case Hardening but not recommended for induction or Flame Hardening. Used for Brake Pistons, hose ends, pulley inserts, vice jaws (case hardened). DO NOT GALVANISE. DO NOT WELD.

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# 12L14

VIOLET

VIOLET

## CHARACTERISTICS

Tensile Strength (MPa) 400-760

Yield Strength (Mpa) 230-590

Hardness (HB) 105-225

## DESCRIPTION

12L14 is a Re-Sulphurised, Re-Phosphorised free machining steel.

## EQUIVALENTS

AS	DIN	BS	JIS	C	Si	Mn	P	S	Pb
1443/12L14	95MnPb28	230M07	SUM22L	0.15	0.1	0.8-1.2	0.04-0.09	0.25-0.35	0.15-0.35
		Leaded							

## NOTES

This is a premium grade of free cutting steel that has excellent machining qualities and is suitable for case hardening and electroplating.

## APPLICATIONS

Typically used by repetition engineers to make brake hose ends, pulleys, hydraulic fittings, padlock shackles and vice Jaws.

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# 750 HB

RED

RED

## CHARACTERISTICS

Tensile Strength (Mpa) 690

Hardness Supplied (HB) 210

Machinability Rating % 65

## DESCRIPTION

20MnV6 is a carbon-manganese steel micro alloyed with vanadium, generally supplied in the black hot rolled condition.

## EQUIVALENTS

UNS	AISI	BS	W.Nr	C	Si	V	Mn	S	P
K01907		4360	1.5217	0.16	0.1	0.08	1.3	0.02	0
K12202		GR 55		0.22	0.35	0.15	1.6	0.04	0.03

## CHEMICAL ANALYSIS (%)

## NOTES

20MnV6 hollow bar is used extensively by all industry sectors for a wide range of applications utilizing it's considerable saving on machining time and weight over solid bar. Typical applications are: Bushes, Cylinders Various, Conveyor Rolls, Hollow Shafts, Hollow Parts and components, Nuts, Rings, etc.

## HEAT TREATMENT

*Case Hardening  
Water quench from 760°C - 780°C.*

760°C - 780°C

HEAT COLOUR  
LIGHT RED

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# E110

WHITE

BISCUIT

## CHARACTERISTICS

Tensile Strength (MPa)

980-1270

Brinell Hardness (HB)

290-375

## EQUIVALENTS

AS

DIN

BS

AISI

AS1444-1996

1.6587

X4317

17CrNiMo6

EN354

## CHEMICAL ANALYSIS (%)

C

Si

Mn

Ni

Cr

Mo

S

P

0.18

0.3

0.5

1.5

1.7

0.3

0.025

0.025

## NOTES

E110 combines core toughness and high case hardness after carburising and quenching.

## DESCRIPTION

E110 is a 1.8% Nickel Chromium Molybdenum case hardening steel.

## APPLICATIONS

Components with large cross sections requiring high toughness and core strength such as gears, crankshafts and heavy duty gear shafts in aircraft and truck construction and mechanical engineering.

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# EN36A

TURQUOISE

TURQUOISE

## CHARACTERISTICS

Tensile Strength (Mpa)

700 - 770

Hardness Supplied (HB)

212

## EQUIVALENTS

DIN

AISI

BS

JIS

14NiCr14

E3310

655M13

SNC815

Ni

C

Mn

Cr

Si

Cr

3

0.13

0.5

0.9

0.25

0.7

3.75

1

## NOTES

Can be welded before carburizing and case hardening.

## DESCRIPTION

A Nickel-chrome case hardening steel with high hardenability and a hard core strength. Typical applications include highly stressed gears and heavily loaded shafts.

## HEAT TREATMENT

*Case Hardening*

*Following core refining, re-heat to 760°C - 800°C, hold until temperature is uniform throughout the section, and quench in oil. Temper immediately while still hand warm.*

760°C - 780°C

HEAT COLOUR  
LIGHT RED

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# O1 Tool Steel

GOLDEN TAN

GOLDEN TAN

## CHARACTERISTICS

## EQUIVALENTS

## CHEMICAL ANALYSIS (%)

Compressive Strength  
(Mpa)

2150 @ 60 HRC

AISI

W.Nr.

C

Mn

Cr

W

V

01

1.2510

0.95

1.1

0.6

0.6

0.1

Hardness Supplied

190 HB delivery condition

Density (kg/m<sup>3</sup>)

7800

## PRODUCT OPTIONS

K720, Silver Steel, Flat Ground Stock, DF2, ARNE

## DESCRIPTION

A general purpose tool steel suitable for a wide variety of cold work applications. Characteristics include good machinability and a good combination of high surface hardness and toughness after hardening and tempering.

## HEAT TREATMENT

SEE MANUFACTURER'S RECOMMENDATIONS

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# K100

LILAC

CUSTARD

## CHARACTERISTICS

Average Rockwell C  
after tempering

57 - 64

Hot Forming Temp.

1050°C - 850°C

Annealing Temp.

800°C - 850°C

## EQUIVALENTS

EN/DIN

AISI

BS

JIS

<1.2080>

D3

BD3

~SKD1

X210Cr12

## CHEMICAL ANALYSIS (%)

C

Si

Mn

Cr

2.00

0.25

0.30

11.50

## POSSIBLE ALTERNATIVES

Sverker 3, XW - 5

## DESCRIPTION

Standard grade of high carbon, high chromium steels.  
High performance cutting tools (dies & punches),  
blanking and punching tools.

## HEAT TREATMENT

SEE MANUFACTURER'S RECOMMENDATIONS

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# K110

LILAC

LILAC

## CHARACTERISTICS

Average Rockwell C  
after tempering

58 - 63

Hot forming temp.

1050°C - 850°C

Annealing temp.

800°C - 850°C

## EQUIVALENTS

EN/DIN

AISI

BS

JIS

<1.2379>

D2

BD2

~SKD11

5CrVMo12-1

## CHEMICAL ANALYSIS (%)

C

Si

Mn

Cr

Mo

V

1.55

0.25

0.35

11.80

0.80

0.95

## POSSIBLE ALTERNATIVES

XW41, D2, Sverker 21

## DESCRIPTION

K110 features excellent toughness and is suitable for bath nitriding. Used for high performance cutting tools.

## HEAT TREATMENT

SEE MANUFACTURER'S RECOMMENDATIONS

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# Stavax

BLACK

MARIGOLD

## CHARACTERISTICS

Tensile Strength (Mpa)

1780 @ 50 HRC

Hardness Supplied

215 HB

Density (kg/m<sup>3</sup>)

7800

## EQUIVALENTS

W.nr

AISI

1.2083

420 ESR

## CHEMICAL ANALYSIS (%)

C

Mn

Cr

V

0.38

0.5

13.6

0.3

## POSSIBLE ALTERNATIVES

M310, M340

## DESCRIPTION

A through-hardening premium stainless mould steel with very good corrosion resistance and excellent polishability. Stavax® ESR is an excellent choice for small to medium size tools where corrosion in production is unacceptable and where the requirements for good hygiene are high.

## HEAT TREATMENT

SEE MANUFACTURER'S SPECIFICATIONS

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# Calmax

WHITE

VIOLET

## CHARACTERISTICS

Compressive Strength 2500 @ 58 HRC

Hardness Supplied 200 HB delivered condition

Density (kg/m<sup>3</sup>) 7770

## DESCRIPTION

A cold work steel suitable for short to medium runs for a wide variety of applications where adhesive wear dominates and/or where the risk of chipping or cracking is high.

## EQUIVALENTS

ASTM	AISI	BS	JIS	C	Si	Mn	Cr	Mo	V
				0.60	0.35	0.80	4.50	0.50	0.20

## CHEMICAL ANALYSIS (%)

## NOTES

The majority of presswork tools today used are manufactured of steels such as 01, A2, D2, D3 or D6. These steels offer adequate wear resistance and suitable hardness, however poor toughness, flame and induction hardenability often mean high maintenance costs. The excellent combination of toughness and wear resistance makes CLAMAX excellent for long production runs and compression moulds.

## HEAT TREATMENT

SEE MANUFACTURER'S SPECIFICATIONS

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# EDCON STEEL

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# 718 - IMPAX

LIME GREEN

CUSTARD

## CHARACTERISTICS

Tensile Strength (Mpa)

1020

Hardness Supplied

290 - 330 HB

Density (kg/m<sup>3</sup>)

7800

## DESCRIPTION

Prehardened plastic mould steel. Very good polishability and good machinability.

## EQUIVALENTS

AISI

W.nr

P20+Ni

1.27

## CHEMICAL ANALYSIS (%)

C

Mn

Cr

Mo

S

Ni

0.37

1.40

2.00

0.20

0.01

1.00

## POSSIBLE ALTERNATIVES

Impax Supreme, M200

## HEAT TREATMENT

SEE MANUFACTURER'S SPECIFICATIONS

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# CCG CI HB (2P Cast)

ROSE PINK

DARK GREY BLUE

## CHARACTERISTICS

Tensile Strength (MPa) 220-260

Compressive Strength (Mpa) 800-850

Hardness Range (HB) 215-269

## EQUIVALENTS

AS	BS	DIN	JIS	C	Mn	Si	Ni	Cr	Mo	P	S	Al	Cu
1830-T260	1452-Grade 17	1691-GG35	FC-25	3.25	0.55	2.3	0.08	0.4	0.1	0.1	0.8	0.1	0.7

## CHEMICAL ANALYSIS (%)

## NOTES

CCG CI HB replaces the old 2P Cast Iron Grade.

## DESCRIPTION

The grade of cast iron is normally called for when exceptionally good wearing qualities are required or when the the component design demands mechanical and physical properties superior to those of a soft, essentially ferritic cast iron centrifugally cast.

## APPLICATIONS

Pistons, End Caps, Glands, Support Bearings, Control Valves, Rotors.

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# 3D Ductile Iron

CUSTARD

ROSE PINK

## CHARACTERISTICS

Tensile Strength (MPa) 415

Elongation (%) 12

Hardness Range (HB) 187 max

## DESCRIPTION

Also known as BU DUCTILE CI - a spheroidal graphite (nodular) ductile iron. This grade is an essentially ferritic grade, having high elasticity and resistance to impact. It can be welded but cannot be readily flame or induction hardened.

## EQUIVALENTS

AS	BS	DIN	JIS	C	Mn	Si	Ni	Cr	Mo	P	S	Mg	Cu
1831-400 -250-12	2789- SNC 27/12	1693- GGG 40	FC-D45	3.55	0.3	2.5	0.03	0.02	0.01	0.1	0.01	0.04	0.05

## CHEMICAL ANALYSIS (%)

## NOTES

Ductile Irons differ from the grey irons in that the graphite occurs as spheroids or nodules instead of flakes. The resulting material has a generally higher strength than grey iron, is ductile rather than brittle, tough and readily machined.

## APPLICATIONS

Typical applications demanding resistance to corrosion and thermal and mechanical shock in marine, automotive, hydraulic, agricultural, railroad, machine tool and general manufacture.

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# 4E Cast Iron

CUSTARD

CUSTARD

CHARACTERISTICS		EQUIVALENTS				CHEMICAL ANALYSIS (%)									
Tensile Strength (MPa)	250-260	AS	BS	DIN	JIS	C	Mn	Si	Ni	Cr	Mo	P	S	Al	Cu
		1830-T250	1452 - Grade 17	161-GG35	FC-25	3.35	0.45	2.6	0.08	0.08	0.01	0.1	0.08	0.01	0.3
Compression Strength (Mpa)	700-800														
Hardness Range (HB)	170-200	<p><b>NOTES</b></p> <p>4E Grade has a typical fine grain size of 7-8 in dense homogeneous matrix. These properties ensure its suitability in applications demanding the ability to withstand high pressures without leaking.</p>													
<p><b>DESCRIPTION</b></p> <p>BU Grey CI continuous cars bars consist of a uniform partial pearlitic structure from the bar surface to the core. This material is ideally suited to high speed machining with significant improvements in cutting tool life and reductions in drill wander which occurs when the drill point gravitates to a softer surface.</p>		<p><b>APPLICATIONS</b></p> <p>Pistons, End Caps, Glands, Support Bearings, Control Valves, Rotors.</p>													

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# LG2 Bronze

VIOLET

VIOLET

## CHARACTERISTICS

## EQUIVALENTS

## CHEMICAL ANALYSIS (%)

Tensile Strength (Mpa) 200 - 270

ASTM	AISI	BS	JIS
SAE 40		1400	BC6C

Cu	Sn	Zn	Pb
85	5	5	5

Hardness Supplied (HB) 80 - 66

C83600		LG2-C	
--------	--	-------	--

## NOTES

Commonly known as Lead Gunmetal. May be used for Phosphor Bronze (PBI) applications.

Machinability Rating % 178

## DESCRIPTION

Continuous Cast Bronze Bar, also available in Hollow Bars. Continuously cast bar has greatly improved physical properties compared to normal sand cast material due to the elimination of inclusions.

## APPLICATIONS

General purpose bearing, hydraulic components, Gears, Worm Wheels, Valve seats, slide valves, rollers, wear rings.

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# PB1 Bronze

BLACK

GOLDEN TAN

## CHARACTERISTICS

Tensile Strength (MPa) 340-360

Hardness Strength (HB) 80

Yeild Strength (Mpa) 170

## DESCRIPTION

PB1 is a bronze grade with good machining properties and high strength.

## EQUIVALENTS

AS	BS	SAE	ASTM
90710	PB1	65	C90700

## CHEMICAL ANALYSIS (%)

Cu	Pb	Sn	Ni	Zn	Sb	P	Al
88	0.25	11	0.1	0.05	0.2	1	0.005

## NOTES

PB1 has good corrosion resistance to sea water and brine. PB1 must have good lubrication and alignment.

## APPLICATIONS

Suitable for heavy worm gears, worm wheels and bearings having medium to high loads and speeds with good resistance to impact loading or pounding.

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# 954 Aluminum Bronze

SILVER

BOTTLE GREEN

## CHARACTERISTICS

Tensile Strength (MPa) 586

Yield Strength (Mpa) 221

Hardness (HB) 180

## DESCRIPTION

954 is very hard and abrasive resistant, it has excellent strength and wear resistance with reasonable machining properties. Physical properties remain good at elevated temperatures.

## EQUIVALENTS

AS	ASTM	SAE	JIS	Cu	Fe	Ni	Mn	Al	
95400	C95400	J461/ J462	ALBCZC	83	4	1.5	0.5	11	

## CHEMICAL ANALYSIS (%)

## NOTES

General corrosion resistance is good, but under some circumstances may suffer dealuminifation. Possible alternatives to 954 are AB1 & AB2 Bronze.

## APPLICATIONS

High Strength bearings.

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# Brass

NATURAL

NATURAL

## CHARACTERISTICS

Tensile Strength (MPa) 380

Hardness Supplied (HB) 85 - 110

Machinability Rating %

## DESCRIPTION

Free Cutting brass is significantly improved form of 60/40 brass. Uniform lead distribution suppresses the brittle phases which cause tool wear.

## EQUIVALENTS

ASTM	AISI	BS	UNS		Cu	Al	Zn	Pb
		CZ121	C38510	MIN	56	-	Remainder	2.5
				MAX	60	-	Remainder	4.5

## CHEMICAL ANALYSIS (%)

## NOTES

C38510 brass will weather to a warm bronze colour. It has good corrosion resistance to fresh water but should not be used in contact with ammonia compounds or be immersed in salt water.

## APPLICATIONS

Builders hardware and architectural application in sections.  
Electrical connections. Nuts, bolts and screw threads.

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# Copper

NATURAL

NATURAL

## CHARACTERISTICS

Tensile Strength (MPa) 245

Hardness Supplied (HB) 75 - 90

Machinability Rating %

## DESCRIPTION

Electrolytic tough Pitch (ETP) copper, alloy 110, has excellent ductility and high electrical, thermal conductivity.

## EQUIVALENTS

ASTM	AISI	BS	UNS		Cu	Al	Zn	O
		C101	C11000	MIN	99.9	-	-	-
				MAX	100	-	-	0.04

## CHEMICAL ANALYSIS (%)

## NOTES

C11000 has excellent corrosion resistance and can be used in underground applications because it resists soil corrosion. Generally resists mineral, fatty and organic acids depending on concentration and specific conditions.

## APPLICATIONS

Earthing spikes, other electrical applications, gaskets, connectors, terminals and plumbing or gutters. C11000 has up to 0.04% Oxygen and is therefore subject to hydrogen embrittlement and therefore should NOT be welded.

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# 304 Stainless Steel

LILAC

LILAC

## CHARACTERISTICS

Tensile Strength (Mpa) 520

Hardness Supplied (HB) 200

Machinability Rating % 55

## DESCRIPTION

304 Grade stainless steel is the most commonly used stainless steel. It is an austenitic, corrosion resistant steel with good strength, toughness and weldability characteristics.

## CHEMICAL ANALYSIS (%)

	C	Si	Mn	P	S	Cr	Mo	Ni
MIN	0	0.45	1.5	0.03	0	16	2	10
MAX	0.08	0.75	2	0.045	0.03	18	3	14

## NOTES

Sometimes called furniture or cutlery grade stainless steel. It has good corrosion and weather resistance in indoor and some outdoor applications but would not be suitable for severe or marine environments. The ease of cleaning and maintaining a hygienic surface on the steel makes it suitable for many purposes.

## HEAT TREATMENT

NOT RECOMMENDED

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# 316 Stainless Steel

BOTTLE GREEN

BOTTLE GREEN

## CHARACTERISTICS

Tensile Strength (Mpa) 580 - 650

Hardness Supplied (HB) 195 - 150

Machinability Rating % 48

## DESCRIPTION

Type 316 has extensive use in chemical processing equipment when better corrosion resistance is required than is afforded by chromium-nickel steels. Typical applications are Food Processing, Chemical Processing, Photographic, Pharmaceutical and Textile Finishing Equipment and Marine Exterior Trim.

## CHEMICAL ANALYSIS (%)

C	Si	Mn	P	S	Cr	Mo	Ni
0.08	0.75	2.0	0.045	0.03	16.0	2.0	10.0
					18.0	3.0	14.0

## NOTES

High corrosion resistance to attacks in marine and corrosive industrial atmospheres. The excellent corrosion resistance makes it suitable particularly where 304 is doubtful.

## HEAT TREATMENT

*NOT RECOMMENDED*

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# 431 Stainless Steel

BLUEBELL

MARIGOLD

## CHARACTERISTICS

Tensile Strength (MPa) 850-1000

Yield Strength (Mpa) 600

## EQUIVALENTS

AS	DIN	SIS	AISI
431	X20CrNi16-2	2321	431

## CHEMICAL ANALYSIS (%)

C	Si	Mn	Cr	Ni	S	P
0.19	0.25	0.4	15.9	1.6	0.025	0.025

## NOTES

This grade can not be readily cold worked and is therefore not recommended for cold heading and bending.

## DESCRIPTION

431 is a martensitic, nickel bearing grade which has good corrosion resistance, excellent tensile and torque strength and good toughness.

## APPLICATIONS

Pump Shafts, nuts, bolts & studs, valve parts or other uses where high tensile properties are required.

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# 2205 Duplex Stainless Steel

LIGHT BLUE

CUSTARD

## CHARACTERISTICS

Tensile Strength (MPa)

620

Yield Strength (Mpa)

450

## EQUIVALENTS

DIN

UNS

ASTM

X2CrNiMoN22 5 3

S31803

A240

## CHEMICAL ANALYSIS (%)

C

Si

Mn

Cr

Ni

Mo

N

<0.03

1

2

22

5.5

3

0.02

## NOTES

2205 provides pitting and crevice corrosion resistance superior to 316L austenitic stainless steel in almost all corrosion media. The yield strength of 2205 is about twice that of austenitic stainless steels.

## DESCRIPTION

2205 is a Duplex stainless steel with high general, localised and stress corrosion resistance properties in addition to high strength and excellent impact toughness.

## APPLICATIONS

2205 is particularly suitable for applications covering temperatures ranging from -45C to 320C. Common applications include: Pressure Vessels, tanks & heat exchangers, cargo tanks for trucks and shipping as well as food processing equipment.

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# 2011 Aluminium

RED

RED

## CHARACTERISTICS

Tensile Strength (MPa)

275 @T4

Density

2820 kg/m<sup>3</sup>

## DESCRIPTION

Aluminium Alloy 2011 is a high mechanical strength alloy that machines exceptionally well. This free machine alloy allows production of detailed parts.

## CHEMICAL ANALYSIS (%)

	Al	Si	Fe	Cu					
MIN	Remainder	0	0	5					
MAX	Remainder	0.4	0.07	6					

## NOTES

2011 has poor corrosion resistance, which means parts require anodising to provide some surface protection. It also has POOR weldability and is not recommended to be welded.

## APPLICATIONS

Automotive parts, bolts, nuts and screw threads.

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# 3003 Aluminium

NATURAL

NATURAL

## CHARACTERISTICS

Tensile Strength (MPa)

210 @ H32

Density

2680 kg/m<sup>3</sup>

## DESCRIPTION

Aluminium Alloy 3003 has medium strength, good weldability and good corrosion resistance in marine and seawater applications. Commonly used as sheet and plate forms.

## CHEMICAL ANALYSIS (%)

	Al	Mg	Cr	Mn					
MIN	Remainder	2.2	0.15	0					
MAX	Remainder	2.8	0.25	0.1					

## NOTES

3003 is readily weldable and cold worked. Because Aluminium is a reactive metal, it may corrode more quickly when in electrical contact with most other metals. Bimetallic reaction needs to be a prime consideration in selecting a material combination.

## APPLICATIONS

Marine and General Sheet Metal.

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# 5005 Aluminium

NATURAL

NATURAL

## CHARACTERISTICS

Tensile Strength (MPa)

115-160 @ H32

Density

2700 kg/m<sup>3</sup>

## DESCRIPTION

Aluminium Alloy 5005 has medium strength, good weldability and good corrosion resistance in marine applications. Commonly used as sheet and plate forms.

## CHEMICAL ANALYSIS (%)

	Al	Si	Fe	Mn					
MIN	Remainder	0	0	0.5					
MAX	Remainder	0.3	0.07	1.1					

## NOTES

5005 is a cold workable, non heat treatable medium strength alloy. Because Aluminium is a reactive metal, it may corrode more quickly when in electrical contact with most other metals. Bimetallic reaction needs to be a prime consideration in selecting aluminium fixings.

## APPLICATIONS

Architectural Application, general sheet metal work, high strength foils.

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# 5052 Aluminium

NATURAL

NATURAL

## CHARACTERISTICS

Tensile Strength (MPa)

210 @ H32

Density

2680 kg/m<sup>3</sup>

## DESCRIPTION

Aluminium Alloy 5052 has medium strength, good weldability and very good corrosion resistance in marine and seawater applications. Commonly used as sheet and plate forms.

## CHEMICAL ANALYSIS (%)

	Al	Mg	Cr	Mn					
MIN	Remainder	2.2	0.15	0					
MAX	Remainder	2.8	0.25	0.1					

## NOTES

5052 is readily weldable and cold worked. Because Aluminium is a reactive metal, it may corrode more quickly when in electrical contact with most other metals. Bimetallic reaction needs to be a prime consideration in selecting a material combination.

## APPLICATIONS

Road Signs, Nameplates, Panelling, Tread plates and Tubes and vessels.

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# 6060 Aluminium

NATURAL

NATURAL

## CHARACTERISTICS

Tensile Strength (MPa)

185 @ T5

Density

2700 kg/m<sup>3</sup>

## DESCRIPTION

Aluminium Alloy 6060 is a medium strength heat treatable alloy with good corrosion resistance and very good weldability.

## CHEMICAL ANALYSIS (%)

	Al	Si	Fe	Mg					
MIN	Remainder	0.3	0.1	0.35					
MAX	Remainder	0.6	0.3	0.6					

## NOTES

Commonly used for extrusions and sections. Can be anodized readily and has a very good response to being anodized. While it has good weathering capabilities it is not recommended for marine applications without further treatment.

## APPLICATIONS

Architectural and Geometric Sections used for windows, doors, fences frames and general fabrications. Heat sink, trucking and transport, furniture and office equipment.

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# 6061 Aluminium

NATURAL

NATURAL

## CHARACTERISTICS

Tensile Strength (MPa) 260-310

Vickers Hardness 100

Based on T6 Temper

## DESCRIPTION

6061 is a heat treatable alloy of medium strength.

## CHEMICAL ANALYSIS (%)

Mg	Mn	Fe	Si	Zn	Cr	Ti	Cu	Al	
1	0.15	0.7	0.6	0.25	0.2	0.15	0.3	96.5	

## NOTES

Good strength and weldability

## APPLICATIONS

Road and rail frames. Heavy Duty Structures.

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