



# IMPACT IRELAND 'METALS' LTD

## Engineering Steel Stockist



Cert No. 4665

Cert No. 61782

### STAINLESS STEELS - NICKEL ALLOYS - ALUMINIUM - ENGINEERING PLASTICS - ENGINEERING STEELS

## COLOUR CODE CHART

Colour	Code Grade	Description	Colour	Code Grade	Description	Colour	Code Grade	Description
STAINLESS STEEL			TOOL STEEL			COPPER / BRONZE / BRASS		
Yellow/White	303S31, AISI 303, 1.4305	Free-cutting stainless steel	Green/Red	D2, 1.2379	Excellent toughness and suitable for bath nitriding, dies and punches.	Red	DGS1043 CuAl10 Ni Fe4, CA104, NES 833	Aluminium-Nickel Bronze with high corrosion resistance.
Red/White	304S11, AISI 304L, 1.4301/1.4307	Lower Carbon content than 303. More suitable for welding parts.	White/Black	P20, 1.2311/1.2738	Plastic mould steel for large and medium moulds.	White	SAE 660 AlMgSil, 3.2315	Leaded-Phosphor Bronze. General purpose machining bronze for applications such as bushes, gears, etc.
Green/White	316S11, AISI 316L, 1.4404/1.4401	Designed for use in severely corrosive conditions, suitable for welding.	Blue/Grey	1.2083	Corrosion resistant tool steel. Used for Grey chemically aggressive moulding compounds and plastics containing abrasive fillers.	Green	HD/HC Copper Bar, C101, Cu-ETP, 2.0060	High conductivity Copper, corrosion resistant, malleable. Used for electrical conductors and also cold heading applications.
Black/Brown	410S21, AISI 410, 1.4006	Martensitic stainless steel. High mechanical properties after heat treatment.	Blue/Silver	01, 1.2510	Medium alloyed. Used in cutting tools, blanking and punching tools, thread cutting tools.	PLASTICS		
Red/Brown	416S21, AISI 416, 1.4005	Martensitic stainless steel. Good machinability used unhardened or hardened.	Yellow/Grey	W302, H 13, 1.2344	H-13 Tool Steel is the most popular and most versatile, hot work tool steel, providing a good balance of toughness, heat check resistance, high-temperature strength and moderate wear resistance.	Green	Cast Nylon 66	Very good mechanical, bearing & wear properties suitable for industrial wear application such as Bearings, Gears, Sprockets etc.
Green/Black/White	17-4PH, 1.4542	Precipitation hardened stainless steel.	ALUMINIUM			Red	Extruded Nylon 66	Highest hardness and stiffness. Best abrasion, natural resistance and sliding properties of all the non-filled nylons. Suitable in Marine, Automotive, Construction & Mining industries.
Green/Pink	S31635, 316Ti, 1.4571	316Ti is a weldable austenitic stainless steel comparable to 316L which is the low carbon equivalent of 316.	Red	Alloy 2011	This alloy is the most often selected for use on high speed automatic lathes. It offers the following advantages: easy machining with any equipment. Longer life of cutting tools cutting area always clean due to very thin chip.	Yellow	CoPolymer (POM) Acetal	High mechanical strength & rigidity with low moisture absorption, excellent machinability.
Orange/Brown	S43100, 431S29, 1.4057	Stainless Grade 431 is a heat treatable martensitic, nickel-bearing grade with the best corrosion properties of all the martensitic grades.	Royal Blue	Alloy 6082	This alloy has medium mechanical properties but high resistance to corrosion and is suitable for welding, hot forging and anodizing.	Blue/White	Homo - Polymer Acetal	Good chemical resistance, high strength, excellent machinability, good slide and wear properties and easy to polish.
Pink	S44004, 440C, 1.4125	Stainless Grade 440C is a high carbon, straight chromium, high hardenability martensitic stainless steel	Royal Blue	Alloy 6063	Alloy 6063 is a widely used extrusion alloy, suitable for applications where no special strength properties are required.	White	PEEK	High Performance material with high temperature and chemical resistance. Excellent dimensional stability and high creep stability.
STEEL			Black/White	Alloy 6026	This innovative alloy has been conceived, in order to meet the most recent standards for the protection of the environment. It is particularly suitable for being machined on high speed automatic lathes, good suitability for decorative and industrial hard anodizing.	Black	PTFE (Teflon)	Good insulating properties, excellent insulating at high temperature applications.
Blue	080A15, EN3B, 1.0402	A mild steel used for general engineering purposes.	Uncoded	A199.5, 3.0255, 1050A	1050A H14 is an unalloyed non-heat treatable rolled aluminium sheet engineered for general sheet metal work where high mechanical properties are not required.	Grey (Self colour)	PVC	Good chemical resistance & fire rating. Easy to weld & glue. Applications include cladding, fluid handling, ventilation, pump & valve parts.
Blue/Pink	S355J2, EN14A, 1.1160	Medium tensile Carbon-Manganese steel. Applications include lifting gear components, bolts, shafts and spindles.	Uncoded	AlMg3, 3.535, 5754	Treadplate is generally used in flooring applications. It provides antislip safety, perfect water drainage and doesn't require any surface treatment or maintenance.	Brown	PE1000 (UHMWPE)	Good chemical & impact resistance. Good for wear & friction application. Applications such as hoppers, wear strips, marine, packaging & food processing machinery.
Green	230M07, EN1A, 1.0715	Free-cutting or free machining steel. Used in automation to produce turned parts. Good tool life.	We also offer the following Alloys: 2007, 2017, 2024, 2030, 5083, 6061, 6262.			CAST IRON		
Purple	230M07Pb, EN1APb, 1.0718	Same as EN1A with the addition of lead. Not recommended for welding.	NICKEL ALLOYS			Orange	BS 1452 GD 250, DIN 1691 GG25, 0.6025	Continuous Cast Iron Bar. Applications include pistons, gears, cams, etc.
Red/White	C45	This grade is commonly known as KEY STEEL. Applications include spindles, studs, levers and clamps.	White	Alloy 42 (Nilo 42) 1.3917, UNS K94100	A Nickel-Iron controlled expansion alloy containing 42% Nickel. It has a low and normally constant coefficient of thermal expansion in the 85°F (20°C) to 570°F (300°C) temperature range.	Yellow/Red	Ductile Iron 420/12 GGG40	A higher grade ductile Iron with improved mechanical properties.
Yellow	080A42/080M40, EN8, 1.1186	A medium tensile Carbon-Steel. Greater strength than mild steel.	Red/Green	Alloy C-276, 2.4819, UNS N10276	Superior corrosion resistance, especially in the corrosive areas of flues, outlet ducting and sewage treatment plants.	Red	NI Resist	Good corrosion and erosion resistance properties and good high temperature performance.
Blue/White	070M55, EN9, 1.0535	Medium Carbon-Steel bar. For oil industry applications, suitable where abrasion resistance rather than toughness is of prime importance.	Black/Green	Alloy 400 2.4360, UNS N04400	Nickel-Copper alloy which is weldable and resistant to corrosion and sea water.	STEEL TUBES		
White/Purple	605M36T, EN16T	Manganese-Molybdenum steel in heat treated condition. Applications include shafts, axles, bolts and nuts.	Yellow/Orange	Alloy 600 2.4816, UNS N06600	Various corrosive and high temperature applications.	Uncoded	EN10305-4 DIN2391C NBK	Cold finish seamless pressure tube for hydraulic feed lines. Supplied with ends capped.
White/White	708M40, EN19, 1.7225	Annealed condition Chromium-Molybdenum steel. Applications include gears, shafts, crank shaft and bolts.	Black/Blue	Alloy 625 2.4856, UNS N06625	Excellent resistance to pitting, crevice corrosion and stress corrosion cracking. Highly resistant to a wide range of organic and mineral acids.	Uncoded	E355 Tube, EN10297-1, DIN 1629/ST 52	Hot finish seamless thick wall tubes or various applications in the mechanical, industrial and agricultural areas.
White/Blue	817M40, Annealed, EN24, 1.6565	Nickel-Chromium-Molybdenum steel in the annealed condition. After heat treatment, material exhibits high resistance to wear with good ductility and shock resistance. Applications include gears, shafts, axles, etc.	Blue/Green	Alloy 718 2.4668, UNS N07718	Alloy Nickel 718 is a precipitation hardened Nickel-Chromium alloy containing significant amounts of Iron, Niobium and Molybdenum. Maintains high strength, good ductility and oxidation resistance up to high temperatures and while also having outstanding cryogenic properties. Applications include choke stems, gate valves, sub surface safety valves.	TITANIUM		
White/Brown	817M40T, EN24T, 1.6565	Hardened and tempered, high resistance to wear with good ductility and shock resistance. Applications include gears, shafts, axles etc. (Condition T).	CHROME PLATED ROD			Blue/Red	Titanium GR.2 Grade 3.7035	Commercially Pure Grade 2 is the most frequently employed unalloyed Titanium grade. It provides moderate strength (typical yield strength 352 MPa), combined with good ductility and formability and excellent weldability.
Green/Black	SAE 8620/SAE 805A20, 1.6543	Low alloy hardening steel. Applications include gears pinions, cams and shafts.	Uncoded	CK45 or 20MnV6	Hard Chrome plated rod for hydraulic pistons	Blue/Orange	Titanium GR.5 Grade 3.7165	Ti-6Al-4V (Grade 5), classed as an alpha-beta alloy, is the most widely used of the high strength Titanium alloys. The alloy combines its good mechanical strength and low density (4.42 kg/dm <sup>3</sup> ), with excellent corrosion resistance in many media.
DUPLEX STAINLESS STEEL			HYDRAULIC RANGE			Uncoded	080A42/150M19, EN8D/EN14A, 1.1191/1.5217	Hard Chrome bar is a chromium-plated steel product used primarily as piston rod material in standard hydraulic and pneumatic applications.
Green/Brown	F51 SAF 2205, 1.4462, UNS 31803	Duplex stainless steel. Good strength and corrosion resistance.	Uncoded	EN10305PT1/2, E355+SR, (Din2391/2393)	Ready to use Smooth Bore Tubes for hydraulic cylinders with smooth mirror finish bore.			
Purple/Black	F53 SAF 2507, S32750, 1.4410	High mechanical strength with corrosion resistance in marine environments.						
Yellow/Brown	F55 1.4501, UNS 32760	Super duplex stainless steel. Applications include off-shore oil and gas equipment.						

AVAILABLE IN ROUNDS, FLATS, SQUARES, HEXAGON, PLATE AND STRIP