

STAINLESS STEEL
404GP™

**Easier to work with,
up to 20% Cheaper**

**THE NEW GENERATION
STAINLESS STEEL FROM**



**Austral
Wright Metals**

Now the competitive edge is in your hands

BIG time and money savings with NEW 404GP™

Grade 404GP™ can be used instead of grade 304 stainless steel in most applications. The corrosion resistance of grade 404GP™ is at least as good as grade 304, usually better: it is not affected by stress corrosion cracking in hot water, and is not subject to sensitisation when welded.

Grade 404GP™ is a new generation ferritic stainless steel made by a premium Japanese mill with state-of-the-art new generation steelmaking technology – with Extra Low Carbon.

404GP™ can be worked by all the methods used with 304. It work hardens similar to carbon steel, so it doesn't cause all the hassles familiar to workers with 304.

The very high chromium content – 21% - of grade 404GP™ makes it much better than the common ferritic grade 430 for corrosion resistance. So don't worry that 404GP™ is magnetic – so are all the duplex grades, e.g. 2205.

EASIER TO WORK WITH, BETTER RESULTS

You can use 404GP™ as a general purpose stainless steel instead of the old workhorse grade 304 in most applications. 404GP™ is easier to cut, fold, bend and weld than 304. This gives a better-looking job – cleaner edges and bends, flatter panels, neater construction.

As a ferritic stainless steel, grade 404GP™ has higher yield strength than 304, similar hardness, and lower tensile strength and tensile elongation. It has much lower work hardening – which is what makes it easier to work with, behaving like carbon steel in fabrication.

COSTS UP TO 20% LESS, REDUCES OTHER COSTS AND LASTS LONGER

404GP™ costs up to 20% less than 304. It weighs less, giving 3.5% more square metres per kg. And better workability reduces labour costs, tool costs and maintenance costs.

AVAILABILITY

**404GP™ is available now, from stock, as coil & sheet
0.55, 0.7, 0.9, 1.2, 1.5 and 2.0 mm thickness**

Finishes are No4 and 2B. The 2B finish on 404GP™ is brighter than 304. Do not use 2B where appearance is important – the gloss may vary across the width.

404GP™ is weldable. You can use TIG, MIG, spot and seam welding. See Austral Wright Metals datasheet on “*Welding New Generation Ferritic Stainless Steels*” for advice.

404GP™ is a new generation ferritic stainless steel grade from the premium Japanese mill JFE Steel Corporation, who brand it 443CT. The grade is new, but the mill has many years of experience with similar high quality grades, and you can be confident it won't let you down.

Like all ferritic stainless steels, 404GP™ should be used only between 0°C and 400°C, and should not be used in pressure vessels or structures without full qualification.

Typical Chemistry of 404GP™ compared to 304 & 430

Grade	Chromium	Copper	Carbon	Titanium	Nickel
404GP™	21.0%	0.4%	0.01%	0.3%	–
304	18.2%	–	0.05%	–	8.2%
430	16.5%	–	0.06%	–	–

Typical Mechanical Properties of 404GP™ compared to 304 & 430

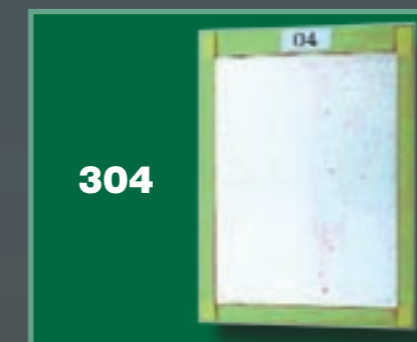
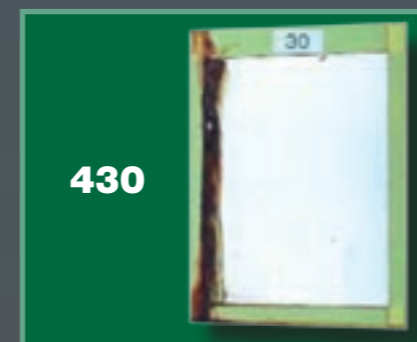
Grade	Yield Stress	Tensile Strength	Elongation
	MPa	MPa	%
404GP™	305	485	30%
304	260	645	55%
430	320	490	30%

Typical Physical Properties of 404GP™ compared to 304 & 430

Grade	Density	Thermal Conductivity	Thermal Expansion Coefficient	Magnetism
	Kg / m ³	W/m.°C	/°C x 10 ⁻⁶	
404GP™	7,750	22.5	10.5	Magnetic
304	8,027	16.2	17.3	Non-magnetic
430	7,750	23.9	10.4	Magnetic

CORROSION PERFORMANCE

SALT SPRAY TEST: Four months in 5% salt spray at 35°C



ATMOSPHERIC CORROSION: One year actual exposure next to Tokyo Bay



Wetherill Park NSW

381 Victoria Street
Wetherill Park NSW 2164
Ph: (02) 9827 0790
Fax: (02) 9757 4486

Epping VIC

67 Gateway Boulevard
Epping VIC 3076
Ph: (03) 9409 8500
Fax: (03) 9408 3946

Archerfield QLD

101 Balham Road
Archerfield QLD 4108
Ph: (07) 3722 0800
Fax: (07) 3277 6799

Regency Park SA

23 Taminga Street
Regency Park SA 5010
Ph: (08) 8345 1033
Fax: (08)8345 1044

Welshpool WA

120 Radium Street
Welshpool WA 6106
Ph: (08) 9258 2600
Fax: (08)9358 6206

