

Technical Specification

Alloy 3004

Alternative Designations: AS 3004; DIN AlMn1Mg1; EN AW-3004; JISA3004p, NF A 3004.

Chemical Composition:							Other elements		Al
	Si	Fe	Cu	Mn	Mg	Zn	Each	Total	
% max expect where a range is given	0.30	0.7	0.25	1.0 -1.5	0.8-1.3	0.25	0.5	0.15	Remainder

Characteristics:

Corrosion Resistance : Good

Anodising : Good (for surface protection only)

Formability : Good

Machinability : Poor

Weldability : Very Good

Brazeability : Very Good

Typical Uses : Electric lamp bases, drawing and forming stock, can body stock, industrial roofing and siding, seam welded irrigation tubes, container sheet, road transport applications

Alloy 3005

Alternative Designations: AS 3005; DIN AlMn1Mg0.5; EN AW-3005; JISA3005P, NF A 3005.

Chemical Composition:								Other elements		Al	
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Each		Total
% max expect where a range is given	0.6	0.7	0.30	1.0-1.5	0.20-0.6	0.10	0.25	0.10	0.05	0.15	Remainder

Characteristics:

Corrosion Resistance : Good

Anodising : Good (for surface protection only)

Formability : Good (for soft temper)

Machinability : Poor

Weldability : Very Good.

Brazeability : Very Good

Typical Uses : Painted and unpainted residential siding and roofing, mobile homes, rain carrying goods, general sheet metal work, flashing, ducting.

Alloy 3105

Alternative Designations: AS 3105; BS 3105 (formerly N31); DIN AlMn0.5 Mg0.5; EN AW-3105; JIS A3105P, NF A 3105.

Chemical Composition:									Other elements		
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Each	Total	Al
% max expect where a range is given	0.6	0.7	0.30	0.30 – 0.8	0.20-0.8	0.20	0.40	0.10	0.05	0.15	Remainder

Characteristics:

Corrosion Resistance : Very Good

Anodising : Very Good (for surface protection only)

Formability : Very Good (for soft temper)

Machinability : Poor

Weldability : Very Good

Brazeability : Good

Typical Uses : General sheet metal work requiring greater strength than is provided by 1000 series alloys; profiled building sheet (roofing and sliding); flashings and ducting; panels; vehicles and caravan panelling; some holloware and domestic appliances.

Alloy 5182

Alternative Designations: AS 5182; BS 5182; DIN AlMg5Mn; NF A 5182

Chemical Composition:									Other elements		
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Each	Total	Al
% max expect where a range is given	0.20	0.35	0.15	0.20-0.50	4.0-5.0	0.10	0.25	0.10	0.05	0.15	Remainder

Characteristics:

Corrosion Resistance : Excellent

Anodising : Very Good

Formability : Very Good (in soft temper)

Machinability : Fair

Weldability : Very Good

Brazeability : Poor

Typical Uses : General sheet metal work; small marine craft; seam welded irrigation tubes; road signs; containers, miscellaneous road transport, industrial and chemical storage applications.

Alloy 5251

Alternative Designations: AS 5182; BS 5251; DIN AlMg2Mn0.3; NF A 5251

Chemical Composition:									Other elements		
	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Each	Total	Al
% max expect where a range is given	0.40	0.50	0.15	0.10 - 0.50	1.7 - 2.4	0.15	0.15	0.15	0.05	0.15	Remainder

Characteristics:

Corrosion Resistance : Excellent

Anodising : Very Good

Formability : Very Good (in soft temper)

Machinability : Fair

Weldability : Very Good

Brazeability : Poor

Typical Uses : General sheetmetal work; small marine craft, seam welded irrigation tubes, road signs; containers; miscellaneous road transport, industrial and chemical storage applications.