

NOMINAL COMPOSITION

Alloy UNS	Alloy AA	Description	Element, weight%				
			Mg	Mn	Cr	Cu	Al
A91100	1100	Aluminium - Low Strength					99.0 min
A91200	1200	Aluminium - Low Strength					99.0 min
A93003	3003	Manganese Aluminium - Medium Strength		1.2		0.12	Rem
A95005	5005	Magnesium Aluminium - Medium Strength	0.8				Rem
A95052	5052	Magnesium Aluminium - Medium Strength	2.5		0.25		Rem
A95251	5251	Magnesium Aluminium - Medium Strength	2.0	0.35			Rem
A95083	5083	Magnesium Aluminium - High Strength	4.5	0.7	0.15		Rem

ALLOY CHARACTERISTICS

Alloy	Standard Product				Corrosion Resistance	Machining	Anodising	Brazing
	Coil	Sheet	Plate	Treadplate				
1100	x	x			A	D	B	A
1200	x	x			A	C	B	A
3003	x	x	x		A	C	B	A
5005	x	x			A	C	B	B
5052	x	x	x	x	A	B	C	C
5251	x	x		x	A	B	C	C
5083			x		A	B	C	D

APPLICATIONS

Alloy	Applications
1100	Spinning, holloware, food handling & storage, general sheet metal work.
1200	Spinning, holloware, and general sheet metal work.
3003	Chemical equipment and sheet metal work.
5005	Architectural, sheet metal work, high strength foil.
5052	Boats, dinghies and other applications requiring resistance to marine corrosion.
5251	Boats, dinghies and other applications requiring resistance to marine corrosion.
5083	Marine, pressure vessels, cryogenics, and structure. Not be be used above 65°C.

Relative ratings in decreasing order of merit: A, B, C, D.
Data from Aluminium Development Council of Australia.

