



MULTI METALS

BESPOKE ALUMINIUM SOLUTIONS

ALUMINIUM DATA SHEET ALLOY GRADE 3103

Alloy 3103 is a medium strength aluminium often found in transport applications. The alloy is usually supplied in Sheet form. It exhibits very good weldability.

Aluminium alloy 3103 also corresponds to: **N3, 3.0515 and AlMn1**
But may not be a direct equivalent in all circumstances or all technical attributes.

Fabrication

Solderability:	Very Good
Weldability - Gas:	Very Good
Weldability - Arc:	Very Good
Weldability - Resistance:	Good
Brazability:	Very Good
Workability - Cold:	Good
Machinability:	Acceptable

Chemical Composition

Element	% Present
Manganese (Mn)	0.90 - 1.50
Iron (Fe)	0.0 - 0.70
Copper (Cu)	0.0 - 0.10
Magnesium (Mg)	0.0 - 0.30
Silicon (Si)	0.0 - 0.50
Zinc (Zn)	0.0 - 0.20
Other (Each)	0.0 - 0.05
Others (Total)	0.0 - 0.15
Chromium (Cr)	0.0 - 0.10
Titanium (Ti)	0.0 - 0.10
Aluminium (Al)	Balance

Physical Properties (for guidance only)

Melting Point	655 °C
Thermal Expansion	23.1 x10 ⁻⁶ /K
Modulus of Elasticity	69.5 GPa
Thermal Conductivity	160 W/m.K
Electrical Resistivity	42 % IACS

Note

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