Aluminium Alloy 3103 H14 Sheet



SPECIFICATIONS

Commercial	3103
EN	3103

Aluminium alloy 3103 H14

CHEMICAL COMPOSITION

BS EN 573-3: 2009 Alloy 3103		
Element	% Present	
Manganese (Mn)	0.90 - 1.50	
Iron (Fe)	0.0 - 0.70	
Silicon (Si)	0.0 - 0.50	
Magnesium (Mg)	0.0 - 0.30	
Zinc (Zn)	0.0 - 0.20	
Others (Total)	0.0 - 0.15	
Chromium (Cr)	0.0 - 0.10	
Copper (Cu)	0.0 - 0.10	
Titanium + Zirconium (Ti+Zr)	0.0 - 0.10	
Other (Each)	0.0 - 0.05	
Aluminium (Al)	Balance	

ALLOY DESIGNATIONS

Aluminium alloy 3103 corresponds to the following standard designations and specifications *but may not be a direct equivalent*:

ISO Al Mn1

TEMPER TYPES

The most common tempers for 3103 aluminium are:

 H14 - Work hardened by rolling to half hard, not annealed after rolling

SUPPLIED FORMS

Alloy 3103-H14 is normally supplied as Sheet

Sheet

GENERIC PHYSICAL PROPERTIES

Property	Value
Density	2.73 g/cm ³
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

MECHANICAL PROPERTIES

BS EN 485-2:2008 Sheet 0.2mm to 6.0mm	
Property	Value
Proof Stress	120 Min MPa
Tensile Strength	140 - 180 MPa
Hardness Brinell	45 HB

Properties above are for material in the H14 condition

WELDABILITY

Alloy 3103 has very good weldability

FABRICATION

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

Brazability: Very Good Solderability: Very Good

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CONTACT

Please make contact directly with your local service centre, which can be found via the Locations page of our web site. Address:

Web: www.amari-ireland.com

REVISION HISTORY

Datasheet Updated 13 November 2018

DISCLAIMER

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