

AI-1607

Specifications

DIN 8555-UP 8-GF-150/400-KPZ

Description and Applications

AI-1607 is a submerged arc cored austenitic alloy for welding 14% Mn steels, armour steels, hardfaced wear plate, hardening steels, and generally all difficult to weld steels. Use **AI-1607** for welding and surfacing of rails, depositing 1st layer before hardfacing on 14% Mn steels or on steels with unknown composition. Good for applications with high impact or shock loading.

Typical Weldmetal Analysis

C	Mn	Ni	Cr	Fe
0.08	6.6	9.0	19.00	Bal

Mechanical Properties of Weldmetal

	As Welded
Tensile Strength	680MPa
Yield Strength (0.2%)	520MPa
Elongation	>38% (4d)
Hardness	160-200HB 450-500HB (after work hardening)
Machineability	Good with carbide tools
Oxy Cutting	Cannot be flame cut

Welding Parameters

Diameter	Current type	Amps	Stick-out
3.2	DC+ve	280-350	35-45

25Kg Coils, 150 & 250Kg Drums

MMAW Electrodes: 2.5, 3.2, 4.0mm diameter

MIG wire: **AI-1707** gas shielded or flux cored, 1.2 & 1.6mm diameter

Disclaimer

All figures in this datasheet should be considered indicative only. No guarantee is made as to their accuracy.

All figures subject to change without notice. Batch analysis is available for all products sold. Should you require any further information, please contact us at sales@alloysint.com.au



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