

TECHNICAL SHEET

Aluminum Welding Alloys

BEIDUO® Alloys

Providing Complete Brazing, Soldering & Welding

No.:000040

Classification

AWS A5-10 ER2319

Chemical Composition: %

Al	Si	Fe	Cu	Mn	Mg	Zn	Ti	Other
Balance	0.2	0.3	5.8-6.8	0.02	0.2-0.4	0.1	0.1-0.2	≤0.15

Mechanical and physical properties

Melting range: 543-643 °C

Density: 2.7g/cm³

Welding process:

TIG , MIG

Description and Applications

It is widely used in high strength structural, aircraft and truck body applications where superior resistance, formability and/or electrical conductivity are required. Especially suitable for use where superior resistance to stress corrosion cracking and excellent elevated temperature properties are desired. The alloy is heat treatable and provides higher strength and better ductility than the 4XXX filler alloys when welding 2XXX alloys.

Product usage: Nuclear industry, ship-building, boiler, space industry, etc.

Availability

TIG-rods(mm): ϕ 1.6; 2.0; 2.4; 3.2; 4.0; 5.0; 6.0

Rod packagings: (Boxes) 5/10kg

MIG-wires(mm): ϕ 0.8; 0.9; 1.0; 1.2; 1.6; 2.0; 2.4

Spools: S100/0.5kg(1lb) S200/2kg S3006kg-7kg(16lb) S360/20kg

Other dimensions are available upon request

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