Product name
AlSi12

Class of product
Aluminium Silicon alloy for MIG/TIG welding

Corresponding standards
DIN 1732    SG-AlSi12
AWS A5.10    ER 4047
ISO 17672    AI 112
EN 1044    AL 104
AWS A5.8    BAISi-4

Nominal composition (weight %)
AI: 88
Si: 12
Other: 0,15 max.

Physical and mechanical properties (of as cast filler metal)
Tensile Strength: 125 - 150 N/mm²
Yield Strength: 70 - 85 N/mm²
Elongation: 15 - 30 %
Melting range: 573 - 585 °C

Range of application
Aluminium Silicon Rods and Wires for MIG and TIG welding of aluminium alloys with Silicon content above 7%.
Good tensile strength and corrosion resistance, low joining temperature.
AlSi12 is also used as a brazing alloy for joining with this technique aluminium base metals (Mg content below approx. 0,7 %), by flame, induction or furnace and with the use of a suitable flux.
Typical applications are in the field of heat-exchangers, air conditioners and condensers and automotive refrigeration systems.

Characteristics Make-up
Rods & Wires

NOTE:
Information contained in this data sheet are based on the knowledge available to us at the date of last document revision and are believed to be accurate. Anyway, no data contained in this data sheet may be regarded as an assurance of any property of the product. We do not assume any responsibility for results obtained or damages occurred from the use of the information contained in this data sheet. We do not assume any responsibility for any un-proper use of the product. Users should verify the suitability and completeness of information with regard to specific use the product. As end use of product is not under our direct control, it is the user’s responsibility to fully comply with applicable laws and regulations in safety and hygiene.