

TECHNICAL SHEET

AISI12

Product name

AISI12

Class of product

Aluminium Silicon alloy for MIG/TIG welding

Corresponding standards

DIN 1732	SG-AISI12
AWS A5.10	ER 4047
ISO 17672	Al 112
EN 1044	AL 104
AWS A5.8	BAISI-4

Nominal composition (weight %)

Al: 88
Si: 12
Other: 0,15 max.

Physical and mechanical properties (of as cast filler metal)

Tensile Strength:	125 - 150 N/mm ²
Yield Strength:	70 - 85 N/mm ²
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.

AISI12 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:

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