

# TECHNICAL SHEET

## AlMg4,5Mn

### Product name

AlMg4,5Mn

### Class of product

Al-Mg alloy for MIG/TIG welding

### Corresponding standards

DIN 1732      SG-AlMg4,5Mn  
AWS A5.10    ER 5183

### Nominal composition (weight %)

Al:      Bal.  
Mg:     4,3 – 5,2  
Mn:     0,5 – 1  
Si:     0,2 max.  
Fe:     0,4 max.  
Cu:     0,1 max.  
Cr:     0,05 – 0,25  
Zn:     0,25 max.  
Ti:     0,15 max.  
Be:     0,0008 max.  
Other:  0,15 max.

### Physical and mechanical properties (of as cast filler metal)

Tensile Strength:      300 - 330 N/mm<sup>2</sup>  
Yield Strength:        125 - 145 N/mm<sup>2</sup>  
Elongation:            25 – 35 %  
Melting range:        565 – 638 °C

### Range of application

AlMg4,5Mn is as Al-Mg alloy aluminium filler metal for MIG/TIG welding of Aluminium-Magnesium and Aluminium-Magnesium-Manganese base metals, with a 5% maximum Magnesium content.

AlMg4,5Mn exhibits very high mechanical properties and is therefore excellent for applications in shipyards, in car and railway industries, in the construction of reservoirs and tanks.

### Characteristics Make-up

Rods & Wires

### NOTE:

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