

SAFRA Al.Mg.4,5Mn/ER 5183

A.W.S./ASTM A5.10:
ER 5183

DIN EN ISO 18273:
S Al 5183-
Al Mg4,5 Mn0,7 A

DESCRIPTION

Welding wires and rods to be used when very high seawater corrosion resistance is needed. Applications in the construction of ships, offshore, cryogenic plants, railway and in the automotive industry.

MATERIALS TO BE WELDED

Al Mg 4,5 Mn	Al Mg 5	Al Mg 2 Mn 0,8	Al Zn Mg 1	Al Zn Mg Cu 0,5	Al Mg Si 0,5	Al Mg Si 1
G-Al Mg 10	G-Al Mg 5	G-Al Mg 3 Si	G-Al Mg 5 Si			

SHIELDING GASES FOR GMAW/GTAW

Ar

99,99% min.

Ar 75% +He 25%

Ar 50%+ He 50%

MINIMAL VALUES OF THE MECHANICAL PROPERTIES (WELDED METAL)

Tensile strength Rm:

275 N/mm²

Yeld strenght Rp 0,2:

125 N/mm²

Elongation L=5d:

17%

AVAILABLE SIZES

MIG: 6-7 Kg D300 or K300/KS300 Spools

TIG carton box of 10 kg
(x 1000 mm length)

D I A M E T E R O F T H E W I R E

0,8 mm - 1,0 mm - 1,2 mm - 1,6 mm - 2,0 mm - 2,4 mm

DIA METER OF THE RODS

1,6 mm-2,0 mm-2,4 mm-3,2 mm-4,0 mm-5,0 mm

MINI-MIG 0,5 Kg D100 Spools

DIA METER OF THE WIRE

0,8 mm - 1,0 mm - 1,2 mm

MORE DIAMETERS AND PACKAGING UPON REQUEST

CHEMICAL COMPOSITION

Al remainder

Si <0,40

Fe <0,40

Cu <0,10

Mn 0,50 - 1,0

Mg 4,3 - 5,2

Cr 0,05 - 0,25

Zn <0,25

Ti <0,15

Be <0,0003

OTHERS EACH <0,05

OTHERS TOTAL <0,15