



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.

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

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 strenght 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)

DIAMETER OF THE WIRE

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

DIAMETER 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

DIAMETER OF THE WIRE

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

MORE DIAMETERS AND PACKAGING UPON REQUEST

OTHERS EACH <0,05

OTHERS TOTAL <0,15