

Al Mg 4.5 Mn W/R

EN ISO 18273 - S Al 5183 (AlMg4,5Mn0,7(A))
AWS A5.10: ER/R 5183

Characteristics: wrought aluminium alloy for filler metals purposes.

Description: Al Mg Mn welding wires and rods for MIG and TIG welding, with an high tensile and corrosion strength. To be used with Al Mn, Al Mg, Al Mg Si, Al Zn with a working temperature below 65,5°C. AlMg4,5Mn, in the as-welded conditions, meets the tensile specification requirements of alloy 5083.

Application: shipyards, storage tanks, structural industry, cryogenics application.

Approvals: RINA, Lloyd's Register, Bureau Veritas, American Bureau of Shipping, RMRS, VdTÜV, DB.

Chemical composition according to EN ISO 18273 [%]:

	Si	Fe	Cu	Mn	Mg	Cr	Zn	V	Ga	Ti	Zr	Al	Be	other each	other total
min.	-	-	-	0.50	4.30	0.05	-	-	-	-	-	rem.	-	-	-
max.	0.40	0.40	0.10	1.00	5.20	0.25	0.25	-	-	0.15	-	rem.	0.0003	0.05	0.15

Remark: maximum value unless shown as a range or a minimum.

Mechanical properties: (as-welded)

min R_m [N/mm²]	278
Rp 0,2 [N/mm²]	135
A [%]	15
Solidus [°C]	578
Liquidus [°C]	638

Gas: EN ISO 439 – I1 (Ar), I3 (He,Ar)

Winding: precision layer wound wire

Polarity: MIG=+ TIG ~

Available sizes:

Wire: diam. 0.80-1.00-1.20-1.60-2.00-2.40-3.17 mm

Spools:

D100 0,45 kg plastic spool

D200 2,0 kg plastic spool

D300 7,0 kg plastic spool 6,0 kg @ d.0.8 mm

BS300 7,0 kg basket spool

R410 10 kg plastic ring

D355 18 kg plastic spool

Drums:

80 kg – 173 kg

Rods: diam 1.60-2.00-2.40-3.20-4.00-5.00 mm x 1000 mm

10 kg – 5 kg cardboard box

Both wire and rods available in FIDAT boxes or neutral boxes