

# ER/R 5183 Al Mg 4,5 Mn Mig Welding Wire

## DESCRIPTION

**FIDAT ER/R 5183** Al Mg Mn alloy welding wire is a wrought aluminium filler alloy with high tensile and corrosion strength. Al Mg 4.5 Mn is also used for other special welding processes of Aluminium/Manganese, Aluminium/Magnesium, Aluminium/Magnesium/Silicon & Aluminium/Zinc alloys with a working temperature below 65,5°C. AlMg4,5Mn meets tensile specification requirements for alloy 5083.

SHIELDING GAS: EN ISO 439 - 100% Argon or Argon/Helium Mixtures

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

## TYPICAL APPLICATIONS

- Shipyard applications
- Storage tanks
- Structural industry
- Cryogenics applications

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.	-	-	-	0.03	0.03	0.03	-	-	-	-	-	rem.	-	-	-
max.	0.40	0.40	0.10	1.00	5.20	0.25	0.25	-	-	0.15	-	-	0.0003	0.05	0.15

Mechanical Properties (as welded)

<b>minR<sub>m</sub> [N/mm<sup>2</sup>]</b>	278
<b>R<sub>p</sub> 0,2 [N/mm<sup>2</sup>]</b>	135
<b>A [%]</b>	15
<b>Solidus [°C]</b>	578
<b>Liquidus [°C]</b>	638

## APPROVALS

- RINA
- Lloyd's Register
- Bureau Veritas
- American Bureau Shipping
- VdTÜV
- DB