

AX-5183

Mat.-No.: 3.3548

AX-AlMg4,5Mn

Classification

DIN EN ISO 18273	S Al 5183 (Al Mg4,5Mn)
Material-No.	3.3548
AWS A5.10	ER 5183

Application

Aluminium-magnesium alloyed filler wire for TIG and MIG welding of aluminium alloys.

Special instruction

The weld seam area must be metallic bright. Larger work pieces should be preheated to 150°C in the welding groove area. When welding age hardenable alloys make sure not to place the weld seam in areas which are subject to high mechanical stress.

Chemical composition in % (standard values)

Al	Mg	Mn	Cr	Ti
Base	4,9	0,8	0,15	0,15

Important base materials

EN AW-5083 (AlMg4.5Mn0,7), EN AW-5019 (AlMg5), EN AW-6005° (AlSiMg(A)),
EN AW-6061 (AlMg1SiCu), EN AW-6082 (AlSi1MgMn), EN AW-7020 (AlZn4,5Mg1),
EN AC 51300 (G-AlMg5), EN AC 51400 (G-AlMg5Si)

Material properties

Welding process Shielding gas Test temperature	TIG/MIG Welding-Argon at 20°C	Mechanical properties, all weld metal DIN 1732-3
0,2%-Yield strength (Rp 0,2)	[N/mm ²]	130
Tensile strength R _m	[N/mm ²]	280
Elongation A (Lo= 5d0)%	[%]	18
Electrical conductivity	[S*m/mm ²]	16-19
Heat conductivity	[W/(m*K)]	110-120
Coefficient of linear heat expansion	[1/K]	23,7*10 ⁻⁶

Shielding gas to be used (EN ISO 14175)

Welding Argon

Zulassung

Details available upon request

Delivery-form

Spools	Ø mm	0,8	1,0	1,2	1,6	2,4	
Rods	Ø mm X 1000mm	1,6	2,0	2,4	3,2	4,0	5,0