

MT-312
1.4337

MIG/TIG welding wire of ferritic-austenitic chrome-nickel steel suitable for joint-welding dissimilar steels and for resurfacing non-scaling up to +1000°C.

Standard designation

Material No.	1.4337
AWS/ASME SFA-5.9	ER 312
EN ISO 14343-A	G/W 29 9

Main base metals

Non-corrosive similar steels and cast-steels, e.g. 1.4762 (X 10 CrAl 24), 1.4085 (G-X70 Cr 29); difficult weldable steel, e.g. highly solid construction steel, high manganese steel and joint with to high-alloy steels; repair welding and wear resistant hardfacing.

Mechanical properties of all – weld – metal
(typical values)

Gas shield	[°C]	M 11 untreated +20°
Thermal treatment		
Test temperature		
0,2%-yield strength R _{p0,2}	MPa	560
Tensile strength R _m	MPa	740
Elongation A ₅	[%]	25
Lin. Thermal expansion Coefficient (20-400°C)	[1/K]	15x10 ⁻⁶

Average chemical composition of all-weld-metal (%)

C	Si	Mn	Cr	Ni
0,12	0,4	1,0-2,5	28,0-32,0	8,0-12,0

Structure

ferritic-austenitic

**Gas types applicable TIG
Gas types applicable MIG**

 I1
M 11

TIG rod diameters, unit weights

Diameter [mm]	Length [mm]	Kg per box [kg]
1,00	1000	10,0
1,60	1000	10,0
2,00	1000	10,0
2,40	1000	10,0
3,20	1000	10,0
4,00	1000	10,0
5,00	1000	10,0

MIG welding wire:

Diameter 0,8mm 1,0mm 1,2mm 1,6mm

Welding positions MIG acc.to EN ISO 6947

PA, PB, PF, PC, PG

Welding positions TIG acc.to EN ISO 6947

PA, PB, PC, PF

Current/Polarity TIG

= -

Current/Polarity MIG

= +