

### Standard

EN ISO 14343-A	W 29 9/G 29 9
EN ISO 14343-B	SS312
Material number	1.4337
AWS A5.9	ER312

### Area of application

Filler rod/filler wire of ferritic-austenitic chrome-nickel steel for TIG or MAG welding steels of different characteristics and for cladding

### Special hints

Because of high ferrite content and high crack resistance particularly suitable for hard to weld materials.

### Composition of the filler rod/filler wire (typical data in %)

C	Si	Mn	Cr	Ni			
0.12	0.4	1.8	30	9			

### Important base materials

For joint welding on hard to weld materials with high strength, also on weldable tools. Joints of differently alloyed steels, tough intermediate layers for hardfacings. Because of its high strength and work hardening capability, also suitable for wear-resistant overlays to clutches, wheel rims and shafts and tools.

### Material properties

Shielding gas	Argon	Mechanical properties of the weld metal according to EN ISO 15792-1
Heat treatment	untreated	
Test temperature	20°C	
0.2%-yield strength $R_{p0.2}$	[MPa]	
Tensile strength $R_m$	[MPa]	
Elongation A ( $L_0 = 5d_0$ ) %	[%]	
Impact strength Av	[J]	540
		760
		25
		30

### Applicable shielding gases (EN ISO 134175)

TIG: argon I1, MAG: mixed gases e.g. M12

### Approval

(Request current scope if required)

### Product form (other dimensions available on request)

Spools	Ø mm	0.8	1.0	1.2	1.6		
Rods	Ø mm x 1000 mm	1.6	2.0	2.4	3.2	4.0	5.0