

## DATASHEET RW 316 LAWS – SAW wire

### Description and Applications

Austenitic stainless steel welding wire suitable to weld base metals of similar compositions like AISI 316 and AISI 316L. Low C content reduces the possibility of intergranular carbide precipitation and therefore increases the resistance to intergranular corrosion. It is also suitable for welding steel that are stabilized with titanium or niobium. Guarantees a better corrosion resistance than RW 308 LAWS.

### Rodacciai denomination and approximate equivalent with other standards

#### RW 316 LAWS

EN ISO 14343-A:2009	S 19 12 3 L
EN ISO 14343-B:2009	SS 316L
AWS A5.9-2012	ER 316L

### Filler metal properties

Chemical composition (nominal) in %

	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	Co	Al	Ti	N	Ca	Nb	B	Ce
min		1,50	0,30			18,00	12,00	2,50									
max	0,020	2,00	0,60	0,015	0,025	19,20	13,00	3,00	0,30	0,20			0,060		0,050	0,002	

### Expected minimum mechanical properties of all weld metal in combination with flux

Temperature	°C	20
Yield strength, Rp 0,2	N/mm <sup>2</sup>	400
Tensile strength, Rm	N/mm <sup>2</sup>	550
Elongation, A5	%	35
Impact energy, ISO – V	J	70

### Packaging forms

Wire basket K415 of 25 kg.

Drum packaging of about 300 kg for diameter 2,00 – 4,00 mm.

Diameters : 1,60 – 2,00 – 2,40 – 3,20 – 4,00 mm