

DATASHEET RW 317 LAWS – TIG rods

Description and Applications

Austenitic stainless steel welding wire suitable for welding parent metals of similar composition, in corrosive environments where crevice and pitting corrosion are of concern, with high acids and chlorides concentration.

Rodacciai denomination and approximate equivalent with other standards

RW 317 LAWS

EN ISO 14343-A:2009	W 18 15 3 L
EN ISO 14343-B:2009	SS 317 L
AWS A5.9-2012	ER 317 L

Filler metal properties

Chemical composition (nominal) in %

	C	Mn	Si	S	P	Cr	Ni	Mo	Cu	Co	N	Nb	B
min		1,20	0,30			18,50	13,50	3,50					
max	0,025	1,80	0,60	0,015	0,025	19,50	14,50	4,00	0,30	0,30	0,060	0,050	0,003

Metal properties

The following data are typical for non-heat treated weld metal from TIG welding with I1 DIN EN ISO 14175 as shielded gas.

Expected minimum mechanical properties of all weld metal

Temperature	°C	20
Yield strength, Rp 0,2	N/mm ²	300
Tensile strength, Rm	N/mm ²	480
Elongation, A5	%	25
Impact energy, ISO – V	J	70

Sizes and marking

Standard sizes : diam. 1,00 – 1,20 – 1,60 – 2,00 – 2,40 – 3,20 and 4,00 mm

Tolerances on diameter : + 0,01 / - 0,04 mm

Marking : Each rod is stamped one end with ER 317L

Packaging forms

White carton boxes of 5 kg.

Red, white or blue coloured cardboard tubes of 5 kg.

Wooden crates of 250 kg.