



# ER 308LSi

## Stainless Steel WIRE/GMAW



### Standards

**EN/ISO-Standard** - 14343-A  
**EN/ISO-Classification** - G 19 9 LSi

**AWS-Standard** - A5.9  
**AWS-Classification** - ER 308LSi

### Features and Applications

- Austenitic stainless steel wire that has a low carbon content, which reduces the possibilities of intergranular carbide precipitation.
- ER 308LSi is used to weld base metals of a similar chemical composition such as 304, 305 and 347 etc.
- Increased silicon content promotes weld pool fluidity to give a smooth deposit appearance.
- Ideal for applications requiring atmospheric corrosion resistance typically in urban and rural media's.
- Good mechanical strength at sub-zero temperatures down to -196°C.
- Precision layer wound for superior wire feeding characteristics.
- Typically used on a wide range of applications including pipe work, plate fabrication and vessel production etc.
- **Test Certificates can be found online @wilkinsonstar247.com**

### Approvals

CE, UKCA

### Typical Base Materials

**W.Nr:** 1.4306, 1.4301, 1.4541, 1.4550, 1.4311, 1.4546, 1.4312, 1.4300, 1.4312, 1.4371, 1.4541, 1.4543, 1.4550, 1.4452\*

**DIN:** X2CrNi 19 11 (TP), X4CrNi 18 10 (TP), X6CrNiTi 18 10 (TP), X6CrNiNb 18 10 (TP), X2CrNiNb 18 10 (TP), X5CrNiNb 18 10, G-X10CrNi 18 8 (TP)\*

**AISI:** 202, 302, 304L, 304, 305, 321, 347, 304 LN, ASTM A320 Grade B8C/D, 302\*

\* Illustrative, not exhaustive list

### Welding Positions

EN ISO 6947 - PA, PB, PC, PD, PE, PF

### Shielding Gases

EN ISO 14175 - M12, M13

### Polarity

DC (+)

### Chemical Composition % (Typical)

C %	Mn %	Si %	S %	P %	Ni %	Cr %	Mo %	Cu %
0.023	1.86	0.89	0.001	0.025	9.30	19.68	0.027	0.041

### Packaging Data

Part No.	Diameter Ø (mm)	Package Weight (Kg)	Package Type	Pallet Quantity
6011100121	0.80	15	D300 PLW	72
6011100122	1.00	15	D300 PLW	72
6011100123	1.20	15	D300 PLW	72

1 kg and 5 kg also available

**Liability:** Whilst all reasonable efforts have been made to ensure the accuracy of the information contained, this information is subject to change without notice and can be only considered as suitable for general guidance.



### Welding Parameters - M12

Ø mm	0.80	1.00	1.20
<b>Current (A)</b>	40-120	80-160	100-210
<b>Voltage (V)</b>	15-20	16-22	17-23

### Welding Parameters - M13

Ø mm	0.80	1.00	1.20
<b>Current (A)</b>	160-210	180-280	200-300
<b>Voltage (V)</b>	24-28	25-30	26-32

### Mechanical Properties

Tensile Strength (N/mm <sup>2</sup> )	Yield Strength (N/mm <sup>2</sup> )	Elongation (%)	Impact Strength (J)
≥510	≥320	≥25	≥80

Mechanical properties are approximate and may vary based on the heat, shielding gas, welding parameters and other factors.