



Nexus 316L/316LSi

19Cr 12Ni 3Mo Low Carbon solid Stainless Steel wires for MIG and TIG welding applications

Austenitic 316 low carbon MIG/TIG wires for joining and overlaying materials of similar compositions. The 316LSi MIG wire has higher silicon level which increases weld pool fluidity, producing mitre finish fillet welds with good toe blending and low spatter.

International Standards

	ISO 14343 - A - :2007	AWS A5.9-93
316L	W 19 12.3 L	ER 316L
316LSi	G 19 12 3 L Si	ER 316LSi

Typical Wire Analysis (wt%)

	C	Si	Mn	S	P	Cr	Ni	Mo
316L	0.015	0.45	1.8	0.02	0.025	18.5	11.5	2.6
316LSi	0.01	0.85	1.95	0.01	0.015	18.5	12.0	2.50

Typical All-Weld Metal Mechanical Properties

	Yield Strength N/mm ²	Tensile Strength N/mm ²	Elongation %	Impact Strength J@ 20°C
316L	~420	~600	~30	~140
316LSi	~470	~650	~35	~140

Welding Positions

All Positions including vertical down

Materials

All 300 series Austenitic Stainless Steels, particularly AISI 316 and 316L.

Packaging

Size mm	1.6	2.4	3.2
Plastic 5 kilo Tube	✓	✓	✓

Size mm	0.8	1.0	1.2
Metal spools 15 kilo	✓	✓	✓

Additional Information

Certification	BS EN 10204:2004 Type 3.1
Material safety data sheet	MSDS 02
BOC Shielding Gas MIG	Stainshield Light (<4mm) Universal (2-10mm) Heavy (>9mm)
BOC Shielding Gas TIG	Pureshield Argon Stainshield TIG <5mm
Related Nexus Products	Nexus E316L electrodes