



MWT 316LSi

Stainless Steel MIG Welding Wire – **AWS A5.9/ASME SFA-A5.9: ER316LSi**

Key Benefits

- Excellent welding properties and weld bead appearance
- Added Silicon level for increased weld puddle fluidity and toe wetting.
- Excellent resistance to general corrosion as well as pitting and intercrystalline corrosion in chlorinated environments
- Controlled Ferrite content for maximum corrosion resistance

Typical applications

- Welding of austenitic stainless steels of type 18% Cr, 10% Ni and 3% Mo.
- Widely used in chemical and food processing industries

Conformity and Approvals

AWS A5.9:	ER316Si, ER316LSi
ASME SFA-A5.9:	ER316Si, ER316LSi
CWB/CSA W-48-14:	ER316LSi
EN ISO 14343-B:	SS316LSi
ABS:	E316Si, ER316LSi
ISO 14343-2009	SS316LSi

Welding Positions

All

Shielding Gas

100% Ar
Flow rate: 8-16 CFH

Wire Composition as per AWS A5.9/A5.9M ER316LSi

Requirements - AWS ER316LSi Typical Wire Composition	%C	%Mn	%Si	%S	%P
	0.03 max. 0.014	1.0-2.5 1.74	0.65-1.00 0.87	0.03 max. 0.009	0.03 max. 0.026
Requirements - AWS ER316LSi Typical Wire Composition	%Cr	%Ni	%Mo	%Cu	%N ₂
	18.0-20.0 18.30	11.0-14.0 11.42	2.0-3.0 2.050	0.75 max. 0.05	- 0.058

Mechanical Properties as required per AWS A5.9/A5.9M ER316LSi

	Yield Strength MPa (ksi)	Tensile Strength MPa (ksi)	Elongation (%)	Impact Energy (J)		FN (WRC-1992)
Typical Results (all weld metal) As Welded	400 (58)	600 (87)	36	+20°C 110	-196°C 50	7

Ordering Information

Product Number	Product (AWS Specification)	Dimension mm/inch	Single Pack Weight kg/lb	Box Weight kg/lb
MWT316LSI16	MWT 316LSi (ER 316LSi)	1.6 x 1000 mm (1/16")	5 kg (11.0 lb)	20 kg (44.0 lb)
MWT316LSI24	MWT 316LSi (ER 316LSi)	2.4 x 1000 mm (3/32")	5 kg (11.0 lb)	20 kg (44.0 lb)
MWT316LSI32	MWT 316LSi (ER 316LSi)	3.2 x 1000 mm (1/8")	5 kg (11.0 lb)	20 kg (44.0 lb)
MWT316LSI40	MWT 316LSi (ER 316LSi)	4.0 x 1000 mm (5/32")	5 kg (11.0 lb)	20 kg (44.0 lb)



Box (20.0 kg)



Single Tube (5.0 kg)