



MWM 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

97-98% Ar / Balance O₂
Flow rate: 30-50 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	-196°C	7
				110	50	

Ordering Information

Product Number	Product (AWS Specification)	Dimension mm/inch	Single Pack Weight kg/lb	Box Weight kg/lb
MWM316LSI061	MWM 316LSi (ER 316LSi)	0.6 mm (0.023")	1 kg (2.2 lb)	20 kg (44.0 lb)
MWM316LSI081	MWM 316LSi (ER 316LSi)	0.8 mm (0.030")	1 kg (2.2 lb)	15 kg (33.0 lb)
MWM316LSI091	MWM 316LSi (ER 316LSi)	0.9 mm (0.035")	1 kg (2.2 lb)	15 kg (33.0 lb)
MWM316LSI065	MWM 316LSi (ER 316LSi)	0.8 mm (0.030")	5 kg (11.0 lb)	20 kg (44.0 lb)
MWM316LSI085	MWM 316LSi (ER 316LSi)	0.9 mm (0.035")	5 kg (11.0 lb)	20 kg (44.0 lb)
MWM316LSI0815	MWM 316LSi (ER 316LSi)	0.8 mm (0.030")	15 kg (33.0 lb)	15 kg (33.0 lb)
MWM316LSI0915	MWM 316LSi (ER 316LSi)	0.9 mm (0.035")	15 kg (33.0 lb)	15 kg (33.0 lb)
MWM316LSI1215	MWM 316LSi (ER 316LSi)	1.2 mm (0.045")	15 kg (33.0 lb)	15 kg (33.0 lb)

