



Product Data Sheet

AlloyRod 316LSi MIG

G 'Gas-shielded metal-arc welding'

Prepared by Sagar Laishetti	Qualified by P-O Oskarsson	Approved by Per Ake Bjornstedt	Reg no EN012058	Cancelling None	Reg date 2025-12-18	Page 1 (1)
--------------------------------	-------------------------------	-----------------------------------	--------------------	--------------------	------------------------	---------------

REASON FOR ISSUE

New Product

GENERAL

AlloyRod 316LSi is a solid corrosion resisting 19%Cr- 12%Ni- 3%Mo wire for welding similar alloys. The higher Si content improves welding properties such as wetting and fluidity.

Shielding Gas: M12, M13 (EN ISO 14175)

Alloy Type: Austenitic 19%Cr- 12%Ni- 3%Mo- Low C- High Si

CLASSIFICATIONS Wire Electrode

EN ISO 14343-A G 19 12 3 LSi

SFA/AWS A5.9 ER316LSi

APPROVALS

CE EN 13479

UKCA EN 13479

CHEMICAL COMPOSITION

All Weld Metal (%) Wire/Strip (%)

	Nom	Min	Max	Nom
C	0.023		0.03	0.025
Si	0.85	0.65	1.00	0.90
Mn	1.8	1.0	2.5	1.85
P	0.025		0.03	0.025
S	0.005		0.02	0.010
Cr	18.5	18.0	20.0	18.50
Ni	11.1	11.0	14.0	11.50
Mo	2.6	2.5	3.0	2.70
Nb	0.10			0.10
Cu	0.20		0.5	0.20
N	0.09			0.10
FN WRC-92	7			9
Ferrite FN	7.5			

MECHANICAL PROPERTIES OF WELD METAL

All Weld Metal

Standard	Condition	Rp0.2 [MPa/ksi]		Rm [MPa/ksi]			A4 [%]		A5 [%]	
		Min	Typ	Min	Max	Typ	Min	Typ	Min	Typ
AWS	As welded		570/83	490/71		680/99	30	35		
EN ISO	As welded	320/46	560/81	510/74		670/97			25	35

Comments:

Standard	Condition	Temp [°C/°F]	Charpy V [J/ft-lb]	
			Min	Typ
AWS	As welded	20/68 -196/-321		130/96 35/26
EN ISO	As welded	20/68 -196/-321		150/111 45/33

Comments:

