

LNT 318Si

TOP FEATURES

- The low carbon content reduces the propensity to intergranular carbide precipitation, which increases the resistance to intergranular corrosion without the use of stabilizers.
- The increased silicon content results in increased weld pool fluidity to give a smooth deposit appearance.
- Better weldability and appearance

TYPICAL APPLICATIONS

- Pipework
- Plates fabrication
- Shipbuilding

CLASSIFICATION

AWS A5.9 ER318
EN ISO 14343-A W 19 12 3 Nb

SHIELDING GASES (ACC. EN ISO 14175)

I1 Inert gas Ar (100%)

CHEMICAL COMPOSITION (WEIGHT %), TYPICAL

C	Mn	Si	Cr	Ni	Mo	Nb
0.05	1.4	0.7	18.7	11.7	2.5	0.7

MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J) +20°C	Impact ISO-V (J) -196°C
Typical values	I1	AW	420	680	35	70	45

* AW = As welded

PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Weight (kg)	Item number
1.6	PE Tube	5.0	600708
2.0	PE Tube	5.0	600725
2.4	PE Tube	5.0	600731
3.2	PE Tube	5.0	600740

TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application

Safety Data Sheets (SDS) are available here:



Subject to Change – The information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.eu for any updated information.

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