

# LNM 309H

## TOP FEATURES

- High resistance to oxidation up to 1050°C
- High carbon content

## TYPICAL APPLICATIONS

- Furnaces Fabrication

## CLASSIFICATION

AWS A5.9 ER309

## SHIELDING GASES (ACC. EN ISO 14175)

M12 Mixed gas Ar+ 0.5-5% CO<sub>2</sub>  
M13 Mixed gas Ar+ 0.5-3% O<sub>2</sub>

## APPROVALS

CE

+

## CHEMICAL COMPOSITION (WEIGHT %), TYPICAL WIRE

C	Mn	Si	Cr	Ni	Mo
0.08	1.8	0.4	23.6	13.2	0.1

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition*	0.2% Proof strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J) +20°C
Typical values	M12	AW	400	640	35	110

\* AW = As welded

## PACKAGING AND AVAILABLE SIZES

Wire diameter (mm)	Packaging	Weight (kg)	Item number
1.0	SPOOL (BS300)	15.0	595765

## 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](http://www.lincolnelectric.eu) for any updated information.