

# CARBOROD NI1

## TOP FEATURES

- Stable arc and excellent feedability
- The weld metal contains less than 1% Ni conforming to NACE requirements
- Ideal for low temperature applications.

## TYPICAL APPLICATIONS

- Offshore
- Pipelaying
- LNG

## CLASSIFICATION

AWS A5.28 ER 80S-Ni1  
EN ISO 636-A W 46 6 3Ni1

## SHIELDING GASES (ACC. EN ISO 14175)

I1 Inert gas Ar (100%)

## APPROVALS

TÜV	CE
+	+

## CHEMICAL COMPOSITION (WEIGHT %), TYPICAL, WIRE

C	Mn	Si	P	S	Ni
0.08	1.1	0.6	≤0.020	≤0.020	0.9

## MECHANICAL PROPERTIES, TYPICAL, ALL WELD METAL

	Shielding gas	Condition*	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Impact ISO-V (J)	
						+20°C	-60°C
Typical values	I1	AW	≥460	550-680	≥24	≥120	≥47

\* AW = As welded

## PACKAGING AND AVAILABLE SIZES

Diameter x Length (mm)	Packaging	Weight (kg)	Item number
1.6	PE Tube	5.0	W000283392
2.0	PE Tube	5.0	W000283393
2.4	PE Tube	5.0	W000283394
3.2	PE Tube	5.0	W000283395

## 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.