

TECHALLOY® 208

Nickel ▪ AWS ERNi-1

KEY FEATURES

- High nickel alloy with Al and Ti for sound deposits
- Q2 Lot® - Certificate showing actual deposit composition available online

WELDING POSITIONS

All

SHIELDING GAS

MIG 75% Ar / 25% He

TIG 100% Ar

CONFORMANCES

AWS A5.14M: ERNi-1
UNS: N02061

TYPICAL APPLICATIONS

- For MIG and TIG welding of nickel 200 and 201
- Can be used for overlay on steel as well as repairing cast iron castings
- Used for dissimilar joints between nickel or nickel alloys to stainless or ferritic steels

DIAMETERS / PACKAGING

Diameter in (mm)	MIG 33 lb (15 kg) Steel Spool	TIG 10 lb (4.5 kg) Tube 30 lb (13.6 kg) Master Carton
0.035 (0.9)	MG208035667	
0.045 (1.1)	MG208045667	
1/16 (1.6)	MG208062667	
3/32 (2.4)		TG208062638
1/8 (3.2)		TG208093638 TG208125638

WIRE COMPOSITION - As Required per AWS A5.14M

	%C	%Mn	%Fe	%P	%S	%Si
Requirements AWS ERNi-1	0.15 max	1.0 max	1.0 max	0.03 max	0.015 max	0.75 max
Typical Results⁽¹⁾ Techalloy® 208	0.05	0.3	0.1	0.004	0.002	0.3
	%Cu	%Ni	%Al	%Ti	%Other	
Requirements AWS ERNi-1	0.25 max	93.0 min	1.5 max	2.0 - 3.5	0.50 max	
Typical Results⁽¹⁾ Techalloy® 208	0.02	97.0	0.1	2.8	<0.50	

TYPICAL OPERATING PROCEDURES

Process / Polarity	Diameter in (mm)	Voltage (volts)	Amperage	Gas
MIG / DC+	0.035 (0.9)	24-29	180-200	75% Argon / 25% Helium
	0.045 (1.1)	26-30	250-270	
	1/16 (1.6)	29-33	200-250	

⁽¹⁾See test results disclaimer.

Safety Data Sheets (SDS) are available on our website at www.lincolnelectric.com

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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.

CUSTOMER ASSISTANCE POLICY

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