

TECHALLOY® 99

Nickel ■ AWS ERNi-CI

KEY FEATURES

- Welds produced are generally more machinable than a Tech-Rod® 55 deposit
- A preheat and inter-pass temperature of not less than 350°F (175°C) is required during welding on cast iron to minimize the potential for cracks
- Q2 Lot® - certificates showing actual deposit composition available online

WELDING POSITIONS

All

CONFORMANCES

AWS A5.15/A5.15M: R2006 ERNi-CI
UNS N02215

TYPICAL APPLICATIONS

- Used for welding of cast irons to other cast irons as well as for joining cast irons to mild steels and stainless steels
- Readily used for the repair of castings

SHIELDING GAS

MIG 75% Ar / 25% He
TIG 100% Ar

DIAMETERS / PACKAGING

Diameter in (mm)	MIG 33 lb (15 kg) Steel Spool	MIG 250 lb (113.4 kg) Accu-Trak® Drum	TIG 10 lb (4.5 kg) Tube 30 lb (13.6 kg) Master Carton
0.035 (0.9)	MG99035667		
0.045 (1.1)	MG99045667	MG99045684	
3/32 (2.4)			TG99093638

WIRE COMPOSITION⁽¹⁾ - As Required per AWS A5.15/A5.15M: R2006

	%C	%Mn	%Si	%S	%Fe
Requirements AWS ERNi-CI	2.0 max	2.5 max	4.0 max	0.03 max	8.0 max
Typical Performance⁽²⁾ Techalloy® 99	0.003	0.07	0.09	0.001	0.1
	%Ni	%Cu	%Al	%Other	
Requirements AWS ERNi-CI	85 min	2.5 max	1.0 max	1.0 max	
Typical Performance⁽²⁾ Techalloy® 99	99	0.02	0.1	<0.50	

TYPICAL OPERATING PROCEDURES

Process	Diameter in (mm)	Voltage (volts)	Amperage	Gas
MIG	0.035 (0.9) 0.045 (1.1)	24-27 25-30	150-190 200-290	75% Argon / 25% Helium

⁽¹⁾Typical all weld metal. ⁽²⁾See test results disclaimer on pg. 13.Safety Data Sheets (SDS) are available on our website at www.lincolnelectric.com