



# Selectarc Fonte Ni

*Pure Nickel Electrode*

## Classification

AWS A 5.15 : ENi-CI

DIN 8573 : E Ni BG 11

ISO 1071 : E C Ni-CI 3

## Description & Applications

Electrode with a graphite-basic coating. Weld deposit consists of pure nickel. Recommended for cold welding and repairing of grey cast iron, repairing of cracks. Homogeneous and easy to machine deposit. Good bonding and flow of the weld metal.

**Main applications:** Repairing of engine blocks, frames of tool machines, gearboxes, reducing pieces, valve and pump bodies.

### Base materials

#### Grey cast iron to different steels :

ASTM	DIN	NFA
A48 Class 25B – A48 Class 60B	GG-15 to GG-40	FGL 150 to FGL 400

## Typical Weld Metal Composition ( % )

C	Si	Mn	Fe	Ni
1.2	<2.0	<1.0	<2.0	>95

## All Weld Metal Mechanical Properties

R <sub>m</sub> ( MPa )	Hardness
>300	Approx. 180 HB

## Welding Current & Instructions

Electrode	ØxL ( mm )	2,5x350	3,2x350	4,0x350	5,0x450
Current	( A )	70	100	145	180

Weld on clean and exempt from grease surfaces (previous grinding of the joint). Apply a heat input as low as possible and keep the temperature low ( < 70°C). Weld with lowest practical current and depose short and narrow beads to reduce the risk of producing cracks in the base metal. To reduce stresses, produced during welding, hammering of the beads is recommended after the deposition of short runs (essential on rigid pieces).

ind.12



= +, - ~ 40 V



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