

OK Ni-CI



OK Ni-CI is a nickel cored electrode for joining normal grades of cast iron, such as grey-, ductile- and malleable irons. It is also suitable for rectification and repair of these grades and for joining them to steel. Deposition is done on cold or slightly preheated cast iron. Weld metal is well machinable. Typical applications are repair of cast iron parts such as cracks in engine blocks, pump housings, gear boxes, frames as well as foundry defects.

Specifications

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| Classifications | SFA/AWS A5.15 : ENi-CI EN ISO 1071 : E C Ni-CI 3 |
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|------------------------|-----------------------------|
| Welding Current | AC, DC+- |
| Alloy Type | Ni-base alloy |
| Coating Type | Basic Special high graphite |
| Min AC OCV | 50 |

Typical Weld Metal Analysis %

| C | Mn | Si | Ni | Al | Cu | Fe |
|-----|-----|-----|------|-----|-----|-----|
| 1.0 | 0.2 | 0.3 | 93.5 | 0.1 | 0.3 | 4.5 |

Deposition Data

| Diameter | Current | Voltage | Efficiency (%) | Fusion time per electrode at 90% I max | Deposition Rate |
|--------------|-----------|---------|----------------|--|-----------------|
| 2.5 x 300 mm | 55-110 A | 21 V | 71 % | 46 sec | 0.9 kg/h |
| 3.2 x 350 mm | 80-140 A | 20 V | 68 % | 66 sec | 1.2 kg/h |
| 4.0 x 350 mm | 100-190 A | 19 V | 70 % | 71 sec | 1.7 kg/h |