

Nickel Base Alloy SMAW Electrodes

GNI 112

AWS A5.11 ENiCrMo-3
ISO 14172-E Ni 6625
JIS Z 3224 E Ni 6625

Product Features:

- Rutile basic type nickel base electrode for DC+ only.
- High welding performance.
- Mo and Nb contains in weld metal to get good heat and corrosion resistance.
- Good low temperature impact toughness.
- Stable arc blow with easy slag removal and good bead apperance.

Applications:

- Welding of similar grade of nickel base alloy.
- Welding of 9% Ni steel.
- Welding overlay to carbon, stainless and Ni steels.

Typical chemical composition of all-weld metal (wt%)

C	Si	Mn	Ni	Cr	Mo	Nb	Fe
0.03	0.46	0.47	63.4	21.10	9.12	3.86	1.40

Typical mechanical properties of all-weld metal

Yield Strength N/mm ²	Tensile Strength N/mm ²	Elongation %	Impact Value (-196°C) J
515	770	33	52

Size (mm) & recommended welding parameters (A)

Diameter/Length	2.6/300	3.2/350	4.0/350
Flat position	65~85	70~110	95~150

Note:

1. 300 ~ 350°C x 1hr baking prior to use.
2. Recommend short arc length and low current, electrode positive (DC+).
3. Full cleaning before welding.

Goodweld Corporation
No.99, Huangong Rd. Yongkang Tainan, Taiwan
Phone: 886-6-2331003 Fax: 886-6-2333213
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www.goodweld.com.tw