

SMAW Electrodes for Nickel Steel (low temperature)

GL86C1 / GL88C1

AWS A5.5M E5516(8)-C1
A5.5 E8016(8)-C1
JIS Z 3211 E5516(8)-N5

Product Features:

- Low hydrogen / iron powder low hydrogen type covered electrode for low alloy low temperature steel (Ni steel).
- Good for RT examination, good mechanical properties.
- All deposited weld metal contains approximately 2.5% Ni elements, good for serving temperature till -60°C.

Applications:

- Suitable for welding of low temperature steel (Ni steel), serving temperature till -60°C.

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

C	Si	Mn	Ni
0.05	0.31	0.82	2.38

Typical mechanical properties of all-weld metal

Yield Strength N/mm ²	Tensile Strength N/mm ²	Elongation %	Impact value (-60°C) J	Post Weld Heat Treatment °C×1hr
555	599	27	44	620

Size (mm) & recommended welding parameters (A) AC or DC±

Diameter / Length	3.2/350	4.0/400	5.0/450
Flat position	90~140	150~200	220~270
Vertical / overhead position	80~110	120~150	--

Note:

- 300~350°C x 1hr baking prior to use.

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