

ArcStar 711NiM

AWS A5.20 E71T-1M-J/ 9M-J
EN ISO 17632-A-T 42 4 P M21 1 H10
JIS Z 3313 T 49 4 T1-1 MA-U

Characteristics and Applications:

ArcStar 711NiM is a gas-shielded flux cored wire designed for mild steel and 490N/mm² high tensile steel. It is suitable for all position welding. It provides stable arc, less spatter, easy slag removable, and excellent X-Ray inspection. It provides good low-temperature impact value due to 0.4%Ni in weld metal. The typical applications include shipbuilding, vessels, piping etc.

Notes on usage:

1. Use (DC+) polarity.
2. Use 75~80%Ar + 25~20%CO₂, 20~25 l/min shielding gas.
3. To get desired impact value, you must control welding heat input, as excessive heat input would decrease notch toughness.
4. Keep the product dry, while it is stored or delivered.

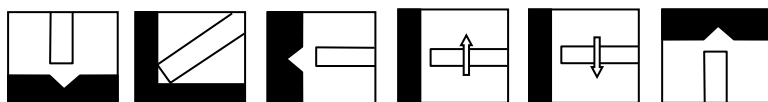
Typical chemical composition of weld metal (wt%):

	C	Mn	Si	P	S	Ni
AWS	≤ 0.12	≤ 1.75	≤ 0.90	≤ 0.03	≤ 0.03	≤ 0.50
EN ISO	-	≤ 2.0	-	-	-	≤ 0.5
Typical value	0.04	1.31	0.44	0.018	0.007	0.45

Typical mechanical properties of weld metal:

	Yield strength MPa(ksi)	Tensile strength MPa(ksi)	Elongation %	Charpy V-Notch J (ft-lbf) -40°C(-40°F)
AWS	≥ 390(58)	490-670(70-95)	≥ 22	≥ 27(20)
EN ISO	≥ 420(61)	500-640(73-93)	≥ 20	≥ 47(35)
Typical value	568(82)	610(88)	30	60(44)

Welding position:



Sizes and recommended parameter range (DC <+>) :

Stick out: 15-25 (mm), gas flow rate: 20-25 (l/min):

Position \ Diameter (mm)	1.2
F, HF	160A-300A/22V-34V
VU, OH	150A-220A/21V-25V
VD	250A-300A/26V-34V
H	200A-260A/23V-28V

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