

Rev. 03

# SF-430Nb

METAL CORED ARC WELDING CONSUMABLE FOR WELDING OF 409 AND 430 TYPE STAINLESS STEEL

2023.01

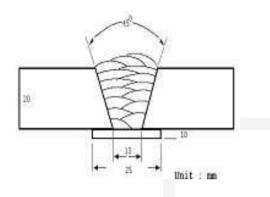
# HYUNDAI WELDING CO., LTD.

		SF-43	ONb			
Specification	<i>JIS Z 3323</i> TS4	30Nb – MAO				
Applications		for the horizontal fillet welding of 409 ferrite stainless steels automotive mu				
Characteristics on Usage	This wire gives excellent bead appearance and provides the operator with a soft stable arc and very low spatter levels thus giving enhanced cosmetic appearance.					
✤ Note on Usage	Use with Ar or Ar + 2~5%O <sub>2</sub> gas.					
✤ Packing	<b>Dia.</b> 1.2mm(0.045in)					
	Spool ∗including ball pac	12.5kg(27.6lbs) 15kg(33lbs)				

## SF-430Nb

## Mechanical Properties & Chemical Composition of All Weld Metal

#### Welding Conditions



[Joint Preparation & Layer Details]

Diameter(mm) Shielding Gas	<ul><li><b>1.2mm(0.045in)</b></li><li>100%Ar</li></ul>
Flow Rate(ℓ /min.)	: 20~22
Amp./ Volt.	: 220/26
Stick-Out	: 20mm (0.79in)
Pre-Heat(℃)	: 150℃(302°F)
Interpass Temp.(℃)	: 150 ~ 260℃(302~500°F)
Polarity	: DC(+)

Method by AWS Spec.

\* Mechanical Properties of All weld metal

Consumable	Tensi	Tensile Test	
SF-430Nb	TS MPa (Ibs/in²	EL(%)	770℃(1418°F) × 2Hr
	520(75,000)	24	FC to 600℃(1112°F) AC to RT

Chemical Analysis of All weld metal(wt%)

Consumable	С	Si	Mn	Р	S	Cr	Nb	Ti
SF-430Nb	0.03	0.40	0.17	0.010	0.010	16.5	0.50	0.40

This information is provided solely for the purpose of confirming product conformance with applicable standards. The serviceability of a product or structure utilizing this type of information is and must be the sole responsibility of the builder/user. Many variables beyond the control of HYUNDAI WELDING CO., LTD. affect the results obtained in applying this type of information. These variables include, but are not limited to, welding procedure, shielding gas, plate chemistry and temperature, weldment design, fabrication methods and service requirements.

SF-430Nb

## **Proper Welding Condition**

### Proper Current Range

Consumable	Shielding Gas	Welding Position	Wire Dia. 1.2mm (0.045in)
SF-430Nb	100%Ar or Ar + 2~5%O <sub>2</sub> gas	F & HF	150~250Amp



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