

# SM-430LNb

13%Cr STS(STS 403, STS 410)

## Conformances

JIS Z3321 YS430LNb  
EN ISO 14343-A G 18LNb

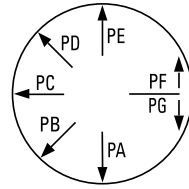
## Applications

- Automotive exhaust applications

## Features

- Excellent bead appearance
- Soft stable arc & Low spatter

## Welding Position



## Current

DC +

## Shielding Gas

Ar / Ar + O<sub>2</sub>

## Diameter / Packaging

Diameter	Spool			Ball Pac		
	12.5kg (28lbs)	15kg (33 lbs)	20kg (44lbs)	150kg (330lbs)	200kg (440lbs)	250kg (551lbs)
mm (in)						
0.8 (0.033)	√					
0.9 (0.035)	√					
1.0 (0.040)	√					
1.2 (0.045)	√					
1.4 (0.052)						√
1.6 (1/16)	√					

**Typical Chemical Composition of the Wire(%)**

C	Si	Mn	Cr	Ni	Nb
0.01	0.41	0.33	18.4	0.27	0.45

**Typical Mechanical Properties of All-Weld Metal**

Dia (mm)	Amp (A)	Vol (V)	Cpm (cm/min)	Gas Flow (l/min)	Shielding Gas
1.2	250	26	30	25	100% Ar or Ar + 2% O <sub>2</sub>
1.6	300	29	35		

**Typical Welding Parameters**

Diameter, Polarity Shielding Gas	CTWD mm(in)	Wire Feed Speed m/min (in/min)	Amp. (A)	Volt. (V)	Deposition Rate kg/hr (lb/hr)
<b>1.0mm (0.040 in), DC +</b>					
100% Ar Gas	15~20 (0.59~0.78)	6.0 (236)	140	24	2.1 (4.6)
		7.1 (280)	160	24	2.5 (5.5)
		9.2 (362)	190	24	3.2 (7.1)
Mixed Gas (Ar + 2% O <sub>2</sub> )	15~20 (0.59~0.78)	5.2 (204)	160	26	1.8 (4.0)
		7.0 (276)	190	26	2.4 (5.3)
		8.3 (327)	220	26	2.9 (6.4)
<b>1.2mm (0.045 in), DC +</b>					
100% Ar Gas	15~20 (0.59~0.78)	9.2 (362)	190	27	4.6 (10.1)
		11.9 (469)	220	27	6.0 (13.2)
		15.5 (610)	260	27	7.8 (17.2)
Mixed Gas (Ar + 2% O <sub>2</sub> )	15~20 (0.59~0.78)	7.7 (303)	200	28	3.9 (8.6)
		8.6 (339)	230	28	4.3 (9.5)
		10.1 (398)	260	28	5.1 (11.2)

SMW

SAW

GMW

GTAW

FCAW

Non-FERROUS

APPENDIX