



High Rust-Resistant Ferritic Stainless Steel

NSSC 180

19Cr-0.4Cu-0.4Nb-LC,N/Similar grade: SUS 430J1L

Features and Applications

NSSC 180 has no Mo content but features improved rust resistance.

- 1. Rust resistance approximately as good as SUS 304, making it an ideal choice for exterior applications.
- 2. Thanks to low carbon content, superior to SUS 430 in ductility and formability.
- 3. Excellent high-temperature characteristics (oxidation resistance and high-temperature strength).

[Applications] Automobile trim, Automotive exhaust system parts, Kitchen equipment, Home electric appliance parts, Solar collector casing, Gates, Handrails

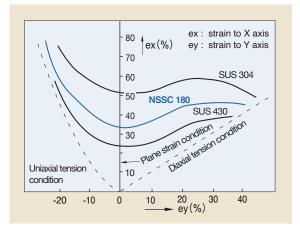
Characteristics

[Mechanical properties]

	Yield strength 0.2% offset N/mm ²	Tensile strength N/mm ²	Elongation %	Hardness HV	
Specification	≧205	≧450	≧22	≦200	
Typical values	314	500	32	153	

[Formability	y]		(Thickness:0.8mm)			
	r value		Buldge height mm	Erichsen value mm		
NSSC 180	1.41	2.3	31.5	9.6		

[Formability / Forming limits curve]



[Rust resistance]

(Test condition)

0.5%NaCl+0.2%H₂O₂, 35°C, 24hr Based on JIS Z 2371

Grade	Surface	(superior)		Rust rank		→ (inferior)	
Grade	finish	Α	В	С	D	Е	F
NSSC 180	2B						
	BA						
	HL						
SUS 430	2B						
	BA						
	HL						
SUS 304	2B						
	BA						
	HL						

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