

NSSC SERIES

FERRITIC



High-Formability Ferritic Heat-Resistant Steel

NSSC 430D

17Cr-0.4Ti-LC,N / Similar grade : SUS 430LX

Features and Applications

1. Excellent formability, particularly deep drawability and stretchability, due to ultra-low carbon content.
2. Rust resistance superior to that of SUS 430.
3. High performance in corrosion resistance and formability at weld zone.

[Applications] Home appliances (drums of washing machines, etc.), Various kitchen equipment, Door knobs, Gas burners

Characteristics

[Mechanical properties]

	Yield strength 0.2% offset N/mm ²	Tensile strength N/mm ²	Elongation %	Hardness HV
Specification	≥175	≥360	≥28	≤180
Typical values	296	436	32	144

[Formability]

(Thickness:0.7mm)

	r value	n value	Erichsen value mm	Conical-cup value
NSSC 430D	1.67	0.27	10.0	27.0
SUS 430	1.18	0.23	9.3	28.4

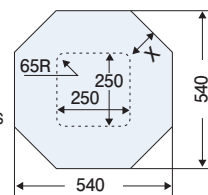
[Drawability]

(Test conditions)

Blank size (mm) : see the right figure

Press conditions : blank holding force of 35 tons

Lubricant : Johnson Wax #122

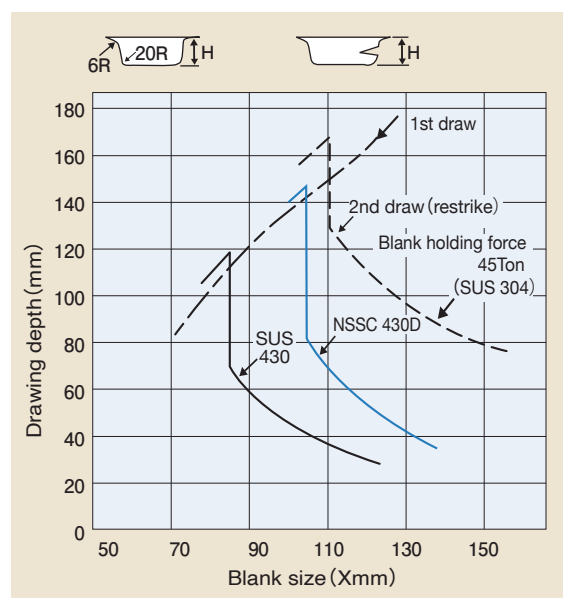


[Corrosion resistance]

Grade	3% NaCl solution; dip & dry	3% NaCl solution; immersed
NSSC 430D	○	○
SUS 430	△	△

Remarks) ○ : Ratio of rusted area is less than 1%

△ : Ratio of rusted area is between 1% and 5%



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