

NSSC SERIES



High Rust-Resistant Ferritic Stainless Steel

NSSC 220M

22Cr-1.6Mo-Nb,Ti- LC,N/Similar grade: SUS 445J2

Features and Applications

High performance of rust resistance is available in this grade, which has been developed by combined addition of Ti and Nb to 22%Cr-1.6% Mo ferritic base material.

- 1. Rust resistance superior to that of SUS 316.
- 2. Lower thermal expansion coefficient suitable for such applications as roofs and exterior walls in which thermal expansion and contraction are problematic.
- 3. Slightly higher hardness than SUS 304 due to high chromium content.

[Applications] Exteriors of buildings, such as roofing, siding, or others.

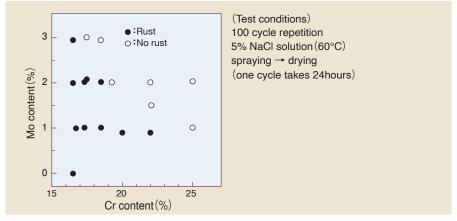
Characteristics

[Mechanical and physical properties]

	Yield strength 0.2% offset N/mm ²	Tensile strength N/mm²	Elongation %	Hardness HV	Bending 180°	Average thermal expansion coefficient (multiplied by 10-6/°C)
Specification	≧295	≧470	≧22	≦200	1.0t	_
Typical values	370	516	30	175	No cracking	10.4 (30−100°C)

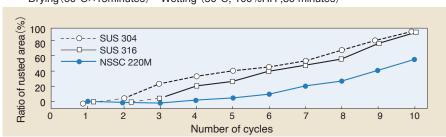
[Corrosion resistance]

(1) Rust resistance and content of Cr and Mo



(2) Accelerated corrosion test with cyclic dry and wet

- 10-cycle repetition: Seawater spraying (room temperature)
- →Drying (60°C×15minutes) → Wetting (50°C, 100%RH ,30 minutes)



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