

NSSC SERIES

AUSTENITIC



High Strength, Pitting Corrosion Resistant Austenitic Stainless Steel

NSSC 170

25Cr-13Ni-0.9Mo-0.3N / Similar grade : SUS 317J2

Features and Applications

NSSC 170 is a stainless steel that has greatly improved resistance to pitting corrosion—one of the critical drawbacks of stainless steels.

1. Pitting corrosion resistance and crevice corrosion resistance superior to those of SUS 316 and SUS 317L.
2. Excellent in resistance to acids, such as sulfuric acid and hydrochloric acid, and can be used at higher acid concentrations and at higher temperatures than SUS 316 and SUS 317L.
3. One and a half times greater strength than SUS 304, providing advantage in the potential of strength-oriented designs.
4. High performance formability and in weldability.

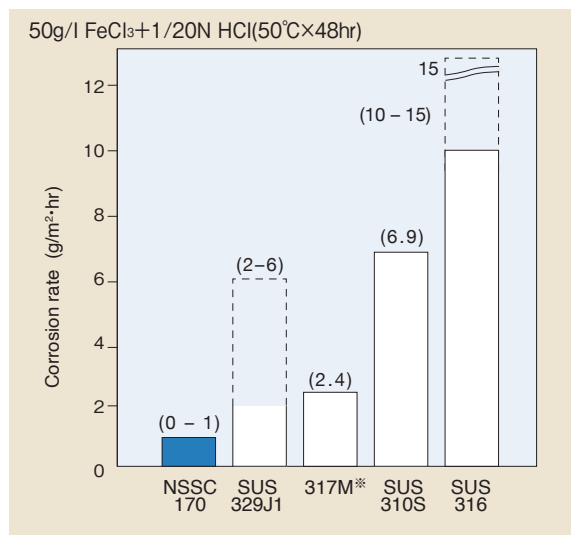
[Applications] Flue gas desulfurizers, Waste liquid treatment equipment, Sludge treatment equipment, High-temperature applications (cement plants and others), General plant equipment

Characteristics

[Mechanical properties]

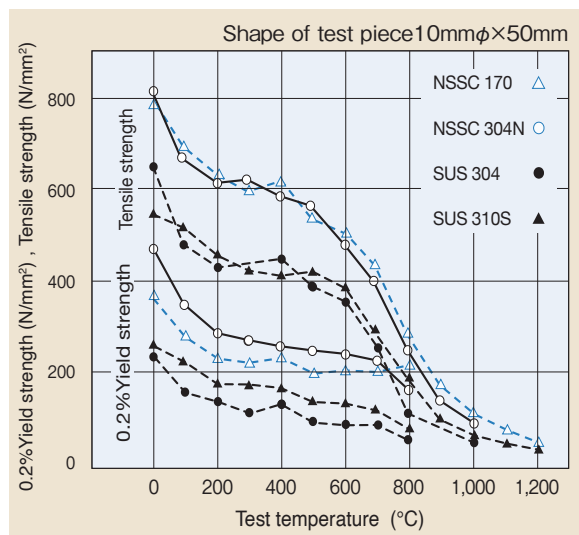
	Yield strength 0.2% offset N/mm ²	Tensile strength N/mm ²	Elongation %	Hardness HBW
Specification	≥345	≥690	≥40	≤250
Typical values	392	785	50	175

[Pitting corrosion resistance]



* 317M.....18Cr-16Ni-5Mo

[High-temperature strength]



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