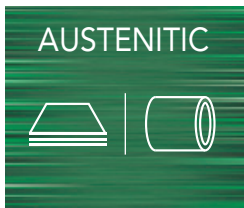


NSSC SERIES

AUSTENITIC



Sulfuric-Acid Resistant Austenitic Stainless Steel

NSSC 260, NSSC 260A

20Cr-15Ni-3Mo-1.5Cu-0.2N-LC, 22Cr-16Ni-3.5Mo-2Cu-0.2N-LC

Features and Applications

1. Excellent sulfuric acid resistance.
2. Good localized corrosion resistance, such as pitting corrosion resistance and crevice corrosion resistance.
3. High-strength stainless steel around 1.5 times that of SUS 304 and SUS 316L at room temperature.
4. Can be welded in the same manner as conventional austenitic stainless steels with welding materials of similar composition; the performance of welded joints is good as well.
5. NSSC 260A is most suitable for chemical tanker.

[Applications] Chimney lining, Exhaust gas desulfurizers

Characteristics

[Mechanical properties]

		Yield strength 0.2% offset N/mm ²	Tensile strength N/mm ²	Elongation %	Hardness HBW
NSSC 260	Specification	≥275	≥550	≥35	≤217
	Typical values (t=8mm)	380	705	47	172
	“ (t=3.2mm)	370	735	47	191
NSSC 260A	Specification	≥315	≥600	≥35	≤230
	Typical values (t=16mm)	333	675	52	159

[Localized corrosion resistance]

Critical pitting corrosion temperature (CPT) and Critical crevice corrosion temperature (CCT)

Test conditions : ASTM G48 Method B

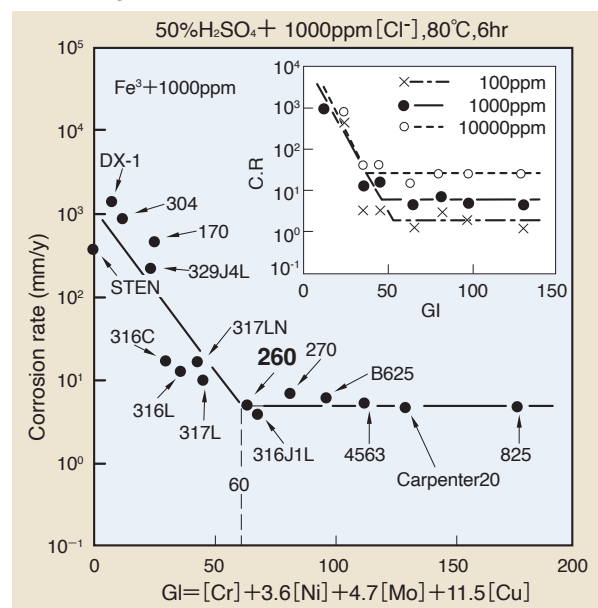
Test solution : 100g FeCl₃·6H₂O+900ml H₂O (6% FeCl₃)

Test period : 72hr

	CPT (°C)	CCT (°C)
NSSC 260	40	20
NSSC 270	70	50
SUS 329J1	55	35
SUS 317L	20	5
SUS 316L	15	0

[General corrosion resistance]

Arrangement of corrosion rate of various stainless steels by use of general corrosion resistance index (GI)



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