

NSSC SERIES

AUSTENITIC



Stress Corrosion Cracking Resistant Austenitic Stainless Steel

NSSC 110M

18Cr-10Ni-2Cu-2Si-0.8Mo / Similar grade : SUS 315J1

Features and Applications

NSSC 110M has excellent stress corrosion cracking resistance against neutral chloride surroundings.

1. High performance in pitting corrosion resistance and crevice corrosion resistance, in addition to stress corrosion cracking resistance.
2. Equal level of formability as SUS 316.
3. Superior to SUS 316 in oxidation resistance.

[Applications] Hot-water equipment, such as hot-water-supply systems and heat exchangers, Automotive exhaust systems, such as flexible pipes, Various corrosion resistance equipment

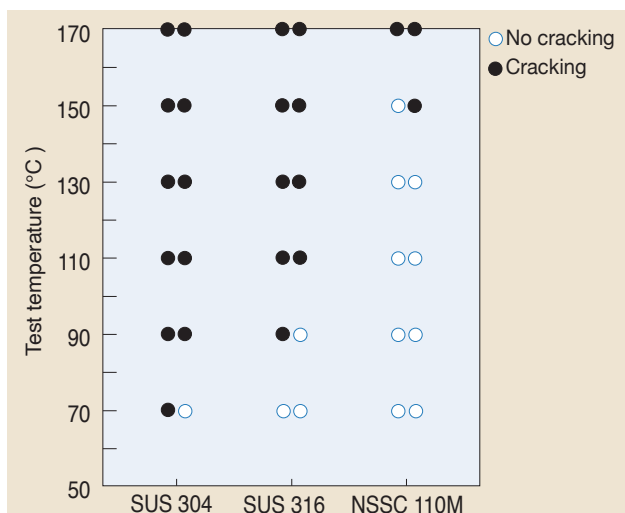
Characteristics

[Mechanical properties] - Formability-

		Yield strength 0.2% offset N/mm ²	Tensile strength N/mm ²	Elongation %	Limit drawing ratio L.D.R.	Buldge height mm	Erichsen value mm
NSSC 110M	Specification	≥205	≥520	≥40	—	—	—
	Typical values	320	640	52	2.3	40.0	12.0
Comparison properties	SUS 304	300	680	50	2.3	43.5	13.6
	SUS 316	300	620	46	2.2	40.4	12.4

[Stress corrosion cracking resistance]

Test conditions: Spot welding crevice, 200ppm of Cl⁻ion, 7days



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NIPPON STEEL CORPORATION

2-6-1 Marunouchi, Chiyoda-ku, Tokyo 100-8071 Japan
 Tel: +81-3-6867-4111 Fax: +81-3-6867-5607
 www.nipponsteel.com

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