

NSSC SERIES



Oxidation- and Electric-Resistant Ferritic Stainless Steel

NSSC HOM

15Cr4Al-LC,N

Features and Applications

- 1. Distinguished performance of oxidation resistance owing to the forming of alumina oxide on its surface when in high-temperature atmosphere.
- 2. Smaller thermal expansion coefficient than austenitic stainless steel, thus offering small thermal deformation.
- 3. Large electric resistivity.

[Applications] Combustion tubes of oil-burning stoves, Grid resisters of cars or ships.

Characteristics

[Mechanical properties]

	Yield strength 0.2% offset N/mm ²	Tensile strength N/mm²	Elongation %	Hardness HV
Specification	≧350	≥520	≧15	≦230
Typical values	493	656	24	208

[Physical properties]

Specific gravity.	Electric resistivity	Average thermal expansion coefficient	
7.20	125±6μΩ•cm (at 20°C)	11.5×10 ⁻⁶ (1/°C) 20–(500°C)	

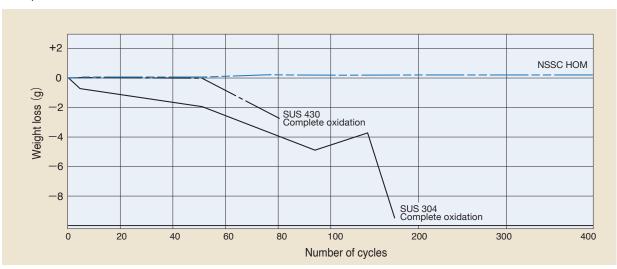
[Oxidation resistance]

intermittent oxidation test in the air

(Test condition)

Heating conditions: One cycle consists of '30 minutes at 1200°C and 30 minutes at room temperature'

Test specimens: thickness×20×50mm



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