Features and Applications

NSSC FH11 has improved heat resistance through the addition of Si and Nb.

1. High performance red rust resistance in a burning atmosphere, as well as in a high-temperature humid atmosphere.
2. Superior to SUS 430 in high-temperature strength.

Applications: Heater combustion parts, etc.

Characteristics

Mechanical properties

<table>
<thead>
<tr>
<th>Specification</th>
<th>Yield strength 0.2% offset N/mm²</th>
<th>Tensile strength N/mm²</th>
<th>Elongation %</th>
<th>Hardness HV/1kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical values</td>
<td>431</td>
<td>588</td>
<td>29</td>
<td>203</td>
</tr>
</tbody>
</table>

Oxidation resistance

- High-temperature humid atmosphere:
  - Atmosphere: 5%O₂-20%H₂O-Ar
  - Period: 20hr
  - (*: red rust generation)

- Air atmosphere:
  - Continuous heating for 200 hours in air
  - (*: abnormal oxidation)

 NSSC 405Si
 SUS 430
 NSSC FH11

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Important notice

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