High-Formability Ferritic Heat-Resistant Steel

NSSC 409L
11Cr-0.2Ti-LC/Similar grade : SUH 409L

Features and Applications

NSSC 409L is an improved workability and weldability grade of Ti-containing 11 Cr heat-resistant steel such as ASTM TP 409 and SUH 409.

1. Excellent oxidation resistance in high temperatures up to around 750℃.
2. Extra-low carbon ferritic structure, and excellent in workability and weldability compared with conventional similar grades.

Applications: Automotive exhaust systems (front pipes, converters, mufflers, etc.), Equipment requiring oxidation resistance, such as heat exchangers or others, Farm machinery, Transformer cases

Characteristics

Mechanical properties (Thickness:1.2mm)

<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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical values</td>
<td>233</td>
<td>420</td>
<td>36</td>
<td>132</td>
</tr>
</tbody>
</table>

High-temperature strength

Strechability

Specifications

Important notice

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