1.4307 X2CrNi 19-11 - Chromium-nickel austenitic stainless steel with low carbon content

<table>
<thead>
<tr>
<th>Typical Composition %</th>
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<td>C</td>
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<td>≤0.03</td>
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Description:
Cr-Ni austenitic stainless steels are the most versatile with the most extended use. They exhibit good properties regarding corrosion, forming and weldability.

Designations:
- EN 1.4307
- EN 1.4301
- ASTM 304L
- ASTM 304
- ASTM S30403
- X2CrNi18-9

General properties:
- Corrosion resistance: good
- Mechanical properties: poor
- Forgeability: very good
- Weldability: excellent
- Machinability: poor

Physical and mechanical properties:
- Density (kg/cm³): 7'900
- Magnetizability: no
- Thermal expansion: 1020 - 1080°C
- Rp0.2: > 230 N/mm²
- Rm: 540-670 N/mm²
- Elongation: > 45%
- Hardness: < 200 HB

Applications:
- Tubes
- Boiler forge
- Chemical industry
- Cryogenic applications