1.4404 X2CrNiMo17-12-2 - Austenitic stainless steel with an excellent corrosion resistance

<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-Mo austenitic stainless steel contain Mo to increase resistance to pitting corrosion. "L" grades with low carbon content, are preferred for applications involving uses at sensitization temperatures, such as welding because chromium carbides precipitation is prevented, then, their resistance to intergranular corrosion is increased.

Designations:
EN 1.4401
EN 1.4404
ASTM 316L
ASTM 316
ASTM S30403
X2CrNiMo17-12-2

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

Physical and mechanical properties:
- Density (kg/cm³): 7.98
- Magnetizability: slight
- Thermal expansion: [Temperaturområde] °C
- Rp0.2: > 240 N/mm²
- Rm: 540 – 620 N/mm²
- Elongnation: >45%
- Hardness: < 200 HB

Applications:
- Chemical and petrochemical industries
- Food, pharmaceutical and textile industries
- Architectural decoration
- Welding applications
- Tubes and boilers
- Vehicle tanks