

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

Typical Composition %							
C	Si	Mn	P	S	Cr	Ni	Mo
≤0.03	≤0.75	≤2.00	≤0.040	≤0.030	16.00-18.00	10.00-12.00	2.00-2.50

### 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/cm<sup>3</sup>)        7, 98  
Magnetizability         sligth  
Thermal expansion      [Temperaturområde] °C  
Rp0.2                     > 240 N/mm<sup>2</sup>  
Rm                         540 – 620 N/mm<sup>2</sup>  
Elongation                >45%  
Hardness                 < 200 HB

### Applications:

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