

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

Typical Composition %						
C	Si	Mn	P	S	Cr	Ni
≤0.03	≤0.75	≤2.00	≤0.040	≤0.015	17.50-19.00	8.00-10.00

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/cm ³)	7'900
Magnetizability	no
Thermal expansion	1020 -1080°C
Rp0,2	> 230 N/mm ²
Rm	540-670 N/mm ²
Elongation	> 45%
Hardness	< 200 HB

Applications:

- Tubes
 - Boiler forge
 - Chemical industry
 - Cryogenic applications
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