

<b>Data Sheet:</b>  <b>Sheets of</b> <b>EN1.4404 – 316L</b>  <b>Alumeco A/S</b>	EN:	EN1.4404
	AISI:	316L
	UNS:	S31603
	SS:	2348
	Chemical Symbol:	X2CrNiMo17-12-2
	Alloy type:	Acid-resistance Austenite
	Revision Date:	23-03-2021

Main usage:
<ul style="list-style-type: none"> <li>• Building industry.</li> <li>• Construction and processing industry.</li> <li>• Reinforcement structures.</li> </ul>

Main properties:
<ul style="list-style-type: none"> <li>• Good formability and machinability.</li> <li>• Improved corrosion resistance.</li> <li>• Good weldability.</li> <li>• Cannot be hardened by heat treatment but can be hardened by cold working.</li> </ul>

Typical Alumeco products with this alloy:
<ul style="list-style-type: none"> <li>• Cold rolled sheets- 0,5-6mmx 1000/1250/1500/(2000)</li> <li>• Hot rolled sheets- 3-12mmx 1000/1250/1500/(2000).</li> </ul>

General Standards:

Rolled products:

- EN 10088-1: List of stainless steels
- EN 10088-2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes
- EN 10029 - Hot-rolled steel plates 3 mm thick or above - Tolerances on dimensions and shape
- DIN59220 - Flat products of steel - Hot rolled patterned plate - Dimensions, mass, tolerances on dimensions, shape, and mass
- EN10028-7 -Flat products made of steels for pressure purposes - Part 7: Stainless steels
- EN9445-2 - Continuously cold-rolled stainless steel - Tolerances on dimensions and form - Part 2: Wide strip and plate/sheet
- EN9444-2 - Continuously hot-rolled stainless steel - Tolerances on dimensions and form - Part 2: Wide strip and sheet/plate

Chemical composition. EN10088-2									
C	Cr	Ni	Mo	Mn	Si	P	S	Remarks	Rest
≤ 0,030	16,5 – 18,5	10,0 – 13,0	2,0-2,50	≤ 2,00	≤ 1,00	≤ 0,045	≤ 0,015	N ≤ 0,10	Fe
Mechanical properties:									
Product Range	Temper	Rm MPa	Rp <sub>0,2</sub> Min. MPa	A <sub>80 mm</sub> / A Min. %	Hardness* HB				
0,5-6mm	C	530 - 680	240	40	-				
3-12mm	H	530 - 680	220	40					
<small>thha* Information values only.            *C-Cold rolled strip, H- Hot rolled strip</small>									
Physical properties:									
Density g/cm <sup>3</sup>	Electrical resistivity Ω.mm <sup>2</sup> / m	Thermal conductivity W/m K	Thermal expansion (μm m <sup>-1</sup> K <sup>-1</sup> )	Specific heat (J kg <sup>-1</sup> K <sup>-1</sup> )	E - modulus (N / mm <sup>2</sup> )	Magnetizable			
8,0	0,75	15	16,0	500	200.000	No			