

We produce for **medicine & industry**

Available qualities, standards and technical data

Material specification	X5 CrNi 18-10	X5 CrNiMo 17 12 2	X2 Cr Ni 19-11	X10 CrNi 18 8
German specification (EN 10088-2)	1.4301	1.4401/1.4404	1.4306	1.4310
International standards	AISI 304	AISI 316 und 316L	AISI 304 L	AISI 301
Chemical analysis*				
C	</= 0.07 %	</= 0.07 % (1.4401) </= 0.03 % (1.4404)	</= 0.03 %	</= 0.05 - 0.15 %
Si	</= 1.00 %	</= 1.00 %	</= 1.00 %	</= 2.00 %
Cr	17.5 % - 19.5 %	16.5 % - 18.5 %	18.0 % - 20.0 %	16.0 % - 19.0 %
Ni	8.0 % - 10.5 %	10.0 % - 13.0 %	10.0 % - 12.0 %	6.0 % - 9.5 %
Mo	-	2.0 % - 2.5 %	-	</= 0.80 %
Mn	</= 2.00 %	</= 2.00 %	</= 2.00 %	</= 2.0 %
Characteristics	corrosion resistant in water and hypochloric media	higher resistance against corrosion caused by chlorine ions	higher resistance against intercranular corrosion	corrosion resistant in water and hypochloric media
	good cold forming properties	good cold forming properties	improved cold forming properties	limited cold forming properties
Application	Medical technology as recommended needle material according to ISO 9626	Medical technology and pharmaceutical industry as recommended needle material according to ISO 9626	Medical technology	Medical technology only for high precision wires

* according to EN 10088