

GRADE	DIN X5CrNiMo17-12-2 WNr. 1.4401 AISI 316 TYPE 316 UNS S31600 DIN X2CrNiMo17-12-2 WNr. 1.4404 AISI 316/316L TYPE 316/316L UNS S31603
STANDARD	EN 10088-3; EN 10272; ASTM A276; ASTM A479; AMS 5648; AMS 5653; AMS QQ-S-763
CLASSIFICATION	AUSTENITIC STAINLESS STEEL
APPLICATIONS	PRESSURE VESSELS, COSMETIC INDUSTRY, FOOD/PETFOOD INDUSTRY, PHARMACEUTICALS INDUSTRY, BIOMEDICAL IMPLANTS, MARINE EXTERIOR TRIM, TEXTILE FINISHING

Chemical Composition [%]						
C	Si	Mn	P	S	Cr	Ni
Max 0.03	Max 1.0	Max 2.0	Max 0.045	Max 0.030	16,5 – 18	10 – 14
Mo	Co	Cu	N	Ti	Nb	Ta
2.0 – 3.0	-	-	Max 1.0	-	-	-

DELIVERY CONDITIONS	Hot rolled, annealed and pickled condition or cold drawn condition
SHAPE	FLAT / SQUARE / HEXAGONAL BARS
SIZE TOLERANCE	EN 10058 / EN 10059 AND EN 10278 (H11) ; ASTM A484;

Mechanical Properties							
Condition	Hardness [HB]	Rp 0,2% [MPa]	Rp 1,0% [MPa]	Rm [MPa]	A [%]	KV [J]	Z [%]
+AT	Max 187	Min 205	Min 225	520 - 700	45	Min 100	Min 60
Cold drawn*	-	Min 450	-	585 - 830	30	Min 100	Min 60

*maximum and minimum values may change upon requested thickness and strain-hardened level

Rp 0,2%	Yield Strength / Streckgrenze / Tensão Limite
Rp 1,0%	1% point / Dehngrenze / Limite de Extensão
Rm	Tensile strength / Zugfestigkeit / Tensão de Rotura
A	Elongation / Bruchdehnung / Alongamento
Z	Reduction of area / Einschnürung / Coeficiente de Estricção

REQUIREMENTS	Other delivery requirements may be analysed upon request
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