

GRADE	DIN X6CrNiS18-9 WNr. 1.4305 AISI 303 TYPE 303 UNS S30300
STANDARD	EN 10088-3; ASTM A582; AMS 5640
CLASSIFICATION	AUSTENITIC FREE-MACHINING STAINLESS STEEL
APPLICATIONS	NUTS AND BOLTS, SCREWS, GEARS, AIRCRAFT FITTINGS, SHAFTS, BUSHINGS

Chemical Composition [%]						
C	Si	Mn	P	S	Cr	Ni
Max 0.10	Max 1.0	Max 2.0	Max 0.045	0.15 – 0.35	17 – 19	8.0 – 10.0
Mo	Co	Cu	N	Ti	Nb	Ta
-	Max 1.0	-	Max 0.10	-	-	-

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) OR ASTM A484

Mechanical Properties						
Condition	Hardness [HB]	Rp 0,2% [MPa]	Rp 1,0% [MPa]	Rm [MPa]	A [%]	Z [%]
+AT	Max 230	Min 190	Min 225	500 - 750	35	-
Cold drawn*	-	Min 190	-	500 - 850	20	-

*maximum and minimum values may change upon requested thickness

Rp 0,2%	Yield Strength / Streckgrenze / Tensão Limite
Rp 1,0%	1% point / Dehngrenze / Limite de Extensão
R_m	Tensile strength / Zugfestigkeit / Tensão de Ruptura
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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