

GRADE	X5CrNiCuNb16-4 (W.Nr. 1.4542)	AISI	17-4 PH
STANDARD	EN 10088-3; ASTM A564; AMS 5643		
CLASSIFICATION	PRECIPITATION HARDENING STEEL		
APPLICATION	PULP AND PAPER INDUSTRY, PUMPS, MECHANICAL ENGINEERING, AEROSPACE AND AVIATION INDUSTRY.		

Chemical Composition [%]						
C	Si	Mn	P	S	Cr	Ni
max 0.07	max 0.7	max 1.0	max 0.04	max 0.03	15.0 - 17.0	3.0 - 5.0
Mo	Co	Cu	N	Ti	Nb	Ta
max. 0.6	-	3.0 - 5.0	-	-	3xC to 0.45	-

Co plus Ta: 0.15-0.45

DELIVERY CONDITIONS	Hot rolled, annealed and pickled or cold drawn final condition
SHAPE	FLAT OR SQUARE 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]	R _m [MPa]	A [%]	Z [%]
+AT	max. 360	-	-	max. 1200	-	-
H900	min. 388	min. 1170	-	min. 1310	min. 10	min. 40
Cold drawn	-	-	-	-	-	-

R_{p 0,2%}	Yield Strength / Streckgrenze / Tensão Limite
R_{p 1,0%}	1% point / Dehngrenze / Limite de Extensão
R_m	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 under request
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