

STANDARD REFERENCE:

EN 10088-3: 2014 (Hot-rolled and bright products)

RODACCIAI REFERENCES AND COMPARABLE STANDARDS

EUROPE		ITALY	GERMANY		FRANCE	UK	USA
EN 10088-3: 2005		(UNI 6900: 71)	(DIN 17440 - 85)		(NF A 35-574-90)	(BS 970 pt. 3-91)	AISI
Grade	N°		Werkstoff	N°			
X7CrNiAl17-7	1.4568	-	-	-	Z 9 CNA 17-07	-	631

CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

C / max	Si / max	Mn / max	P / max	S / max	Cr	Ni	Al
0,09	0,70	1,00	0,040	0,015	16,0÷18,0	6,5÷7,8	0,70÷1,50

MECHANICAL PROPERTIES - Rough turned (1X) in the annealed condition

Size max (mm)	Heat treatment	Hardness HB max*	Rp _{0,2} (MPa) min	R _m (MPa) max	A ₅ (%) min**	KV (J) min
30	Solution Annealed (+AT)	255	-	850	-	-

* only for guidance

MECHANICAL PROPERTIES - Cold drawn wire and coils (2H)

Tensile strength levels	+C 500	+C 650	+C 800	+C900
R _m (MPa)	500÷700	650÷850	800÷1000	900÷1100

Note: the desired tensile strength level shall be evaluated depending on diameter required

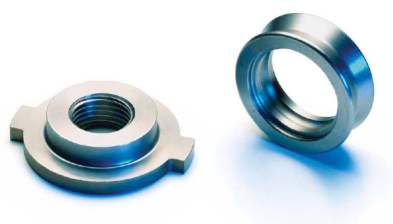
MECHANICAL PROPERTIES - Cold drawn wire and coils in the solution annealed condition (2D)

Size	0,50 ≤ d ≤ 1,00	1,00 < d ≤ 3,00	3,00 < d ≤ 5,00	5,00 < d ≤ 16,00
R _m (MPa) max	1100	1050	1000	950
A (%) max	10	10	10	15

 Note: If skin passed, R_m might be increased by up to 50 MPa

WORKING TEMPERATURES RECOMMENDED

Operation	Hot forgings deformation	Annealing (water, air)
°C	900÷1150	1060÷1080



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