

STANDARD REFERENCE:
A313 / A313M
RODACCIAI REFERENCES AND COMPARABLE STANDARDS

EUROPE		ITALY	GERMANY		FRANCE	UK	USA
EN 10088-3: 2014		(UNI 6900: 71)	(DIN 1654-5: 89)		(NF A 35-574-90)	(BS 3111 pt.2 -79)	AISI
Grade	N°		Werkstoff	N°			
X8CrMnCuN17-8-3	1.4597	-	-	-	-	-	204Cu - S 20430

CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

C / max	Si / max	Mn	P / max	S / max	N	Cr	Cu	Mo / max	Ni
0,10	1,00	6,50÷9,00	0,040	0,030	0,10÷0,30	15,50÷17,50	2,00÷3,50	1,00	1,50÷3,00

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

Size max (mm)	Hardness HB max***	Rp _{0,2} (MPa) min	Rp ₁ (MPa) min*	R _m (MPa)**	A ₅ (%) min**	KV (J) min	Resistance to intergranular corrosion	
							in the delivery condition	in the welded condition
100	245	270	305	560÷780	40	100	YES	NO

* Only for guidance ** The maximum HB values may be raised by 100HB or the tensile strength value may be raised by 200 MPa and the minimum A% value may be lowered to 20% for bars of ≤35 mm

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

Size	0,10 ≤ d ≤ 0,20	0,20 ≤ d ≤ 0,50	0,50 ≤ d ≤ 1,00	1,00 ≤ d ≤ 3,00	3,00 ≤ d ≤ 5,00	5,00 ≤ d ≤ 16,00
R _m (MPa) max	1050	1000	950	900	850	800
A (%) min	20	30	30	30	35	35

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

WORKING TEMPERATURES RECOMMENDED

Operation	Hot forgings deformation	Solution annealing (water, air)
°C	900÷1200	1000÷1100

