

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 35-573-90)	(BS 970 pt.3 -91)	AISI
Grade	N°		Werkstoff	N°			
X6CrNiNb18-10	1.4550	X 6 CrNiNb 18 11	X6CrNiNb18-10	1.4550	Z6 CNNb 18 - 10	347S31	347

CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

C / max	Si / max	Mn / max	P / max	S / max	Cr	Nb	Ni
0,08	1,00	2,00	0,045	0,015	17,0÷19,0	10x%C÷1,00	9,0÷12,0

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	230	205	240	510÷740	40	100	YES	YES

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

WORKING TEMPERATURES RECOMMENDED

Operation \	Hot forgings deformation	Solution annealing (water, air)
°C	900÷1150	1020÷1120

