

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		-	-		(NF A 35-574-90)	(BS 1501 pt.3-90)	AISI
Grade	N°		Werkstoff	N°			
X3CrNiMoN27-5-2	1.4460	-	-	-	Z5 CND 27 - 05 AZ	-	(329)

CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

C / max	Si / max	Mn / max	P / max	S / max	N	Cr	Mo	Ni
0,05	1,00	2,00	0,035	0,030	0,05÷0,20	25,0÷28,0	1,30÷2,00	4,5÷6,5

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

Size max (mm)	Hardness HB max***	Rp _{0,2} (MPa) min	R _m (MPa)**	A ₅ (%) min**	KV (J) min	Resistance to intergranular corrosion	
						in the delivery condition	in the welded condition
100	260	450	620÷880	20	85	YES	YES

* 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 (2H, 2B) and ground bars (2G) in the solution annealed condition

Size max (mm)	Rp _{0,2} (MPa) min	R _m (MPa)	A ₅ (%) min*	KV (J) min
≤ 10	610	770÷1030	12	-
> 10 ≤ 16	560	770÷1030	12	-
> 16 ≤ 40	460	620÷950	15	85
> 40 ≤ 63	460	620÷950	15	85
> 63 ≤ 100	460	620÷880	20	85

* Values valid only for size ≥5 mm

WORKING TEMPERATURES RECOMMENDED

Operation	Hot forgings deformation	Solution annealing (water, air)
°C	950÷1200	1020÷1100



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