

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°			
X46CrS13	1.4035	-	-	-	-	-	-

CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

C	Si / max	Mn / max	P / max	S	Cr
0,43÷0,50	1,00	2,00	0,040	0,15÷0,35	12,5÷14,0

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

Size max (mm)	Heat treatment	Hardness HB max*	R _{p 0,2} (MPa) min	R _m (MPa) max	A ₅ (%) min**
63	Annealed (+A)	245	-	800	-

* only for guidance ** for rods, only the tensile strenght values apply

MECHANICAL PROPERTIES - Cold drawn (2H, 2B) and ground bars (2G) in the heat-treated condition

Size(mm)	Annealed	
	R _m (MPa) max	HB max*
≤ 10	880	280
> 10 ≤ 16	880	280
> 16 ≤ 40	800	250
> 40 ≤ 63	760	230

* for reference only

WORKING TEMPERATURES RECOMMENDED

Operation	Hot forgings deformation	Annealing (air)
°C	900÷1100	750÷850

