

STANDARD REFERENCE:  
 EN 10263-4: 2017

### RODACCIAI REFERENCES AND COMPARABLE STANDARDS

EUROPE		ITALY	GERMANY		FRANCE	UK	USA
EN 10263-4: 2001		(UNI 7845-78)	(DIN 17200-86)		(NF A 35-552-86)	(BS 970 pt.3-96)	ASTM A 29
Grade	N°		Werkstoff	N°			
36CrB4	1.7077	-	-	-	-	-	-

### CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

C	Si / max	Mn	P / max	S / max	Cr	B	Cu
0,34÷0,38	0,30	0,70÷1,00	0,025	0,025	0,90÷1,20	0,0008÷0,0050	0,25

### MECHANICAL PROPERTIES - Bars, wire and coils for cold heading

Size mm	Spheroidized Annealed (+AC) or Spheroidized Annealed+Peeled (+AC +PE)		Cold Drawn+ Spheroidized Annealed (+U +C +AC)		Cold Drawn + Spheroidized Annealed + Skin Pass (+U +C +AC +LC)		Spheroidized Annealed + Cold Drawn (+AC +C)	
	R <sub>m</sub> (MPa) max	Z (%) min	R <sub>m</sub> (MPa) max	Z (%) min	R <sub>m</sub> (MPa) max	Z (%) min	R <sub>m</sub> (MPa) max	Z (%) min
≥ 2 ≤ 5	-	-	570	63	610	61	-	-
> 5 ≤ 40	570	61	550	63	590	61	690	56

### HARDNESS LIMITS (JOMINY TEST)

Limits of range	Hardness HRC at a distance from quenched end of test pieces (mm)															
	1,5	3	5	7	9	11	13	15	20	25	30	35	40	45	50	
+H	Max	58	58	57	56	56	55	55	55	53	51	48	46	-	-	-
	Min	50	49	48	48	47	46	46	45	34	30	27	-	-	-	-

