

RODACCIAI REFERENCES AND COMPARABLE STANDARDS

EUROPE		ITALY	GERMANY	FRANCE	UK	USA
UNI EN 10087: 1998 UNI EN 10277-3: 2008		(UNI 4838-80)	(DIN 1651-88)	(NF A 35-562-86)	(BS 970 pt.3-91)	ASTM A 29
Grade	N°	-	-	-	-	-

CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

C	Si / max	Mn	P / max	S	Pb
0,25÷0,30	0,30	1,10÷1,60	0,10	0,24÷0,32	0,15÷0,30

MECHANICAL PROPERTIES

Size mm	as Rolled and/or as Rolled + Rurned (+SH)		Cold Drawn (+C)		
	Hardness HB*	R _m (MPa)	R _{p0,2} (MPa) min	R _m (MPa)	A5 (%) min
≥5 ≤10	-	-	440	630÷890	7
>10 ≤16	-	-	400	590÷850	7
>16 ≤40	140÷200	450÷650	350	540÷820	8
>40 ≤63	140÷200	450÷650	330	520÷800	9
>63 ≤100	150÷200	420÷620	-	-	-

* For reference only

For size <5 mm the mechanical properties may be agreed at the time of enquiry and order

WORKING TEMPERATURES RECOMMENDED

Operation	Hot forgings deformation	Normalizing	Soft annealing	Quenching in oil or water	Tempering
°C	950÷1200	880÷910	650÷700	870÷900	540÷680

