

STANDARD REFERENCE:
 EN 10085: 2001

RODACCIAI REFERENCES AND COMPARABLE STANDARDS

EUROPE		ITALY	GERMANY		FRANCE	UK	USA
EN 10085: 2001		(UNI 8077-80)	(DIN 17200-86)		(NF A 35-552-86)	(BS 970 pt.3-96)	ASTM A 29
Grade	N°		Werkstoff	N°			
31CrMoV9	1.8519	30CrMoV10	-	-	-	-	-

CHEMICAL COMPOSITION (CAST ANALYSIS) (%)

C	Si / max	Mn	P / max	S / max	Cr	Mo	V
0,27÷0,34	0,40	0,40÷0,70	0,025	0,035	2,30÷2,70	0,15÷0,25	0,10÷0,20

MECCHANICAL PROPERTIES

Size mm	HB max to condition		Quenched and tempered (+QT)				
	Treated to improve shearability (+S)	Soft annealing (+A)	R _{p0,2} (MPa) min	R _m (MPa)	A ₅ (%) min	Z (%) min	KV (J) min
≤ 16	-	248	-	-	-	-	-
> 16 ≤ 40	-	248	900	1100÷1300	9	-	25
> 40 ≤ 100	-	248	800	1000÷1200	10	-	30

WORKING TEMPERATURES RECOMMENDED

Operation	Hot forgings deformation	Nitriding	Soft annealing	Quenching in water or oil	Tempering
°C	850÷1150	480÷570	680÷720	870÷930	580÷700

