


Quality	817M40						 ALOK INGOTS steel re engineered AN ISO 9001:2008 CERTIFIED COMPANY
According to Standard	PD 970:2005						
Number	-						
Comparable Standards	W.N.	AISI	DIN				
	-	4340	34CrNiMo6				
Chemical Analysis	C %	Mn %	Si %	Cr %	Ni %	Mo %	S%
	0.36 to 0.44	0.45 to 0.70	-	1.00 to 1.40	1.30 to 1.70	0.20 to 0.35	-
	P%						
	-						
Hot Work and Heat Treatment Temperatures							
	Preheat Treatment °C	Austenitizing °C	Hardening °C	Tempering °C			
	No Hardenability data specified		820 to 850	700 max.			
Mechanical Properties at Room Temperature							
Condition	Ø mm.	Rp0,2 min. N/mm2	Rm N/mm2	A min. %	KV min. J	Max Hardness HB	
Hardened and tempered + turned or ground	T > 150 ≤ 250	635	850 to 1000	13	35	248 to 302	
	T > 63 ≤ 150	665	850 to 1000	13	50	248 to 302	
	U > 29 ≤ 100	740	925 to 1075	12	42	269 to 331	
	V > 13 ≤ 63	835	1000 to 1150	12	42	293 to 352	
	W > 6 ≤ 29 ^d	925	1075 to 1225	11	35	311 to 375	
	X > 6 ≤ 29 ^d	1005	1150 to 1300	10	28	341 to 401	
	Z > 6 ≤ 19 ^d	1125	1550 min.	5	9	444 min.	
Hardened and tempered + cold drawn or hardened tempered + cold drawn + ground	R > 100 ≤ 250	680	850 to 1000	9	50	248 to 302	
	S > 63 ≤ 150	755	925 to 1075	9	42	269 to 331	
	T > 29 ≤ 100	850	1000 to 1150	9	42	293 to 352	
	U > 13 ≤ 63	940	1075 to 1225	8	35	311 to 375	
	V > 6 ≤ 29 ^d	1020	1150 to 1300	7	28	341 to 401	
	W > 6 ≤ 19 ^d	1235	1550 min.	3	9	444 min.	
Softened + turned, ground or cold drawn or turned, ground or cold drawn + finally softened	-	-	-	-	-	277 max.	