Quality	**32CrB4**
According to Standard	**EN 10263 - 4 : 2003**
Number	**1.7076**

ALOK INGOTS
steel re engineered
AN ISO 9001:2008 CERTIFIED COMPANY

Comparable Standards	**German DIN**	**France AFNOR**	**Spain**	**UNE**	**China GB**	**U.K. B.S.**	**Russia GOST**	**USA AISI - SAE**	**Japan JIS**
	32CrB4					32CrB4			

Chemical Analysis	**C% max**	**Si% max**	**Mn%**	**P% max**	**S% max**	**Cr%**	**Cu% max**	**B%**
	0.30 - 0.34	0.30	0.60 - 0.90	0.025	0.025	0.90 - 1.20	0.25 - 0.30	0.0008 - 0.005

Hot Work and Heat Treatment Temperatures

Temperature °C

Hot - Forming	**Normalizing**	**Quenching**	**Tempering**	**Soft Annealing**	**Isothermal annealing**	**Spheroidizing**	**Full Annealing**	**End Quench Hardenability test**	**Stress-relieving +SR**
1150 - 850	850 - 880 air	860 oil, polymer or water	550 - 650 air	680 - 720 air (HB max 230)	840 - 880 furnace cooling to 690 then air (HB max 162)	700 - 720 air		860 water	50° under the temperature of tempering

Mechanical Properties at Room Temperature

State of supply accoeding EN 10263 - 4 : 2003

Size		**Spheroidizing + AC o + AC + PE**		**Untreated , cold - drawn & Spheroidized +U+C+AC**		**Untreated, cold-drawn, spheroidized and skin pass +U+C+AC+LC**		**Spheroidized and cold-drawn +AC+C**	
mm		**Peeled , Reeled & Ground**							
From	**To**	**Rm max**	**Z min**	**Rm max**	**Z min**	**Rm max**	**Z min**	**Rm max**	**Z min**
		N/mm²	**%**	**N/mm²**	**%**	**N/mm²**	**%**	**N/mm²**	**%**
2	5			550	64	590	62		
5	40	550	62	530	64	570	62	670	57