

Quality	32CrB4								
According to Standard	EN 10263 - 4 : 2003								
Number	1.7076								
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 according 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/mm <sup>2</sup>	%	N/mm <sup>2</sup>	%	N/mm <sup>2</sup>	%	N/mm <sup>2</sup>	%
2	5			550	64	590	62		
5	40	550	62	530	64	570	62	670	57