Quality	**20CrMo5**
According to Standard	**Werkstoff**
Number	**1.7264**

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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**
				20CrMnMo				SCM 421
Chemical Analysis	**C% max**	**Si% max**	**Mn% max**	**P% max**	**S% max**	**Ni% max**	**Cr% max**	**Mo%**
	0.18 - 0.23	0.15 - 0.35	0.90 - 1.20	0.035	0.035		1.10 - 1.40	0.20 - 0.30

Hot Work and Heat Treatment Temperatures

Temperature °C

Hot - Forming	**Core Hardening**	**Soft Annealing +A**	**Isothermal Annealing +I**	**Carburizing**	**Hardening Carburizing surf.**	**Stress-relieving +SR after welding**
1050 - 850	850 water , oil , polymer	680 - 700 cooling 15°C/h to 600		860 - 900	810 - 830 oil -	Welding must be carried out on the annealed state & before carburizing
	(HRC 45)	then air (HB max 217)		oil , polymer , sb	polymer salt bath	

Mechanical Properties at Room Temperature

Hot Rolled mechanical properties after case hardening in core

size mm		**Testing at room temperature (Longitudinal)**								
		R	**Rp 0.2**	**A%**	**C%**	**Kv**	**HB**			
from	**to**	**N/mm2**	**N/mm2 min**	**min.**	**min.**	**J min.**				
	11	**1080 - 1370**	**735**	**7**	**30**	**24**	**327 - 394**	**for info only**		
	30	**980 - 1270**	**685**	**8**	**35**	**24**	**295 - 373**	**for info only**		
	63	**780 - 1080**	**540**	**10**	**35**		**232 - 327**			