

Material specification sheet

Saarstahl - 100CrMnSi6-4 (100CrMn6)

Material No.:	Former brand name:	International steel grades:
1.3520	RW4	BS: AFNOR: SAE:

Material group: Ball and roller bearing steel according to EN ISO 683-17

Chemical composition: (Typical analysis in %)	C	Si	Mn	Cr	other
	1,00	0,60	1,10	1,50	-

Application: Ball and roller bearing steel for balls and rollers of any dimension, rings and discs over 30 mm effective thickness.

Hot forming and heat treatment:	Forging or hot rolling:	1100 - 850°C
	Normalising:	860 - 890°C/air
	Soft annealing:	750 - 800°C/furnace
	Hardening:	830 - 870°C/oil
	Tempering:	150 - 180°C

Mechanical Properties:	Soft annealed +A:	max. 217 HB
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Heat treatment condition: Hardened and tempered

Surface hardness [HRC]: ca. 62