

Material specification sheet

Saarstahl - 100Cr6

Surface hardness [HRC]:

Material No.: Former brand name: International steel grades:

1.3505 RW3 BS: 2S135, 535A99

AFNOR: 100C6 **SAE:** 52100

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

Chemical
composition:
(Typical analysis in %)CSiMnCrother1,000,250,351,50-

Application: Ball and roller bearing steel for balls and rollers of any dimension,

rings and discs up to 30 mm effective thickness.

Hot forming and Forging or hot rolling: 1100 - 850°C heat treatment: Normalising: 870 - 900°C/air Soft annealing: 780 - 800°C/furnace Hardening: 800 - 830°C/water Hardening: 830 - 870°C/oil Tempering: 150 - 180°C Mechanical **Properties:** Soft annealed +A: max. 207 HB Heat treatment condition: Hardened and tempered

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