

TAPERED ROLLER BEARINGS



We supply a broad range of tapered roller bearings suitable for any applications whose radial and axial loads are high.

Production includes the following series: 302, 303, 313, 320, 330, 331, 332.

RING AND BALL MATERIALS	100 Cr6 REF. ISO683-17
PRECISION CLASS	P6X
TOLERANCES	ISO 492
VIBRATION LEVEL	V3
BOX	ACCORDING TO CUSTOMER'S SPECIFICATIONS

MATERIAL: Special hardened and tempered IMA3 steel

Specifics	code	Chemical composition (%)						
		C	Si	Mn	S	P	Cr	Mo
DIN	100 Cr 6	0,90 ÷ 1,05	0,15 ÷ 0,35	0,25 ÷ 0,45	≤0,025	≤0,030	1,35÷1,65	-

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IMA 3 is a high purity steel with low oxygen contents (4-5 ppm) and excellent fatigue resistance. Its chemical composition allows outstanding workability and ensures low inclusion-concentration.

IMA 3 steel purity results in high fatigue resistance up to 600-800 MPa according to load direction, whereas it stands at around 300-500 MPa for traditional steel.


HARDNESS LEVEL AFTER HARDENING-TEMPERING TREATMENT	RINGS: 60÷65HRC
	ROLLERS: 61÷66HRC

CAGE MATERIAL

Specifics	Code	Chemical composition (%)						
		C	Si	Mn	S	P	Cr	Mo
GB/T 699	08F	0,05÷0,11	≤0,03	0,25÷0,50	≤0,035	≤0,035	≤0,15	≤0,25
JIS G 3141	SPCC	≤0,12	-	<0,5	<0,04	<0,045	-	-

For special products, cages are available in:

- **Stainless steel**
- **Polyamide 6.6 + glass fibre (% according to its application)**

	TECHNICAL DATA SHEET	ST_01_2018
		Rev. 0 29-03-2018
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DECLARATION OF CONFORMITY REGARDING THE LIMITATIONS OF DANGEROUS SUBSTANCES

Ima hereby states that the bearings produced in our plants are compliant with:

⇒ REACH (Registration Evaluation Authorization of Chemicals) - SVHC LIST 2018

⇒ RoHS 2 Directive 2011/65/CE