Selection Options for Angular Contact Bearings

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	-	Bearings made of bearing steel have no prefix
① Material	M	Bearings made of high temperature steel ¹
	N	Bearings made from high nitrogen steel ¹
	HY	Balls made of Silicon Nitride, rings made of bearing steel
② Series	S	Standard bearing series, single relief on outer ring
	SM	High speed large ball series, similar but higher speed to S series
	KH	Small ball high speed series, with optional seals
	BNT	Separable bearing, similar to S series performance
	BHT	Separable bearing, similar to SM series performance
3 Direct Lubrication	-	Standard
	Α	Oil lubrication hole through outer ring on open side
	AB	Oil lubrication hole through outer ring on closed side
	L	Oil lubrication hole through outer ring on open side, outer ring oil groove with O-ring seals
	LB	Oil lubrication hole through outer ring on closed side, outer ring oil groove with O-ring seals
	AG	Grease lubrication hole through outer ring on open side
4 Bearing size	6002	Designation of dimension series and bore diameter
5 Seals	2RZ	Seals on both sides (For KH series)
6 Contact angle	С	15°
	Е	25°
	18°	Custom contact angle
7 Cage	TA	Laminated phenolic resin cage guided on outer ring (Standard)
	TXM	Molded plastic cage guided on outer ring, ball retaining ²
8 Precision	P4+	Corresponds to P4S per DIN 628-6, tighter than but similar to P4 (ABEC 7) ³
		See P4+ tolerance sheet for further explanation (www.gmnbt.com/downloads.htm)
	P2	European tolerance class P2, similar to ABEC 9 ³
	A9	ABEC 9 per ABMA standards, similar to P2 ³
	HG	GMN high precision according to GMN specification, higher than P4, but lower than UP ³
	UP	GMN ultra precision according to GMN specification, higher than HG, but lower than P2 ³
High point marking	R	High point mark for radial runout for both inner and outer rings
	R_{i}	Similar to R, but only for inner ring
	R _a	Similar to R, but only for outer ring
(10) Grading	X	Grading of bore and outer diameter ⁴
① Bearing sets	-	1 bearing
	D	2 bearings
	Т	3 bearings
	Q	4 bearings
(12) Matching	U	Universal
	F	Face-to-Face
	В	Back-to-Back
	Т	Tandem
①3 Preload	L	Light
	M	Medium
	Н	Heavy
	V	Special
(14) Heat treatment	S1	Operating temperature up to 200° C¹
	S2	Operating temperature up to 250° C¹
	S3	Operating temperature up to 300° C¹
15 Lubrication	-	No lubrication
	T274	Lubrication identifier, ex. Turmogrease HS L252 (See Grease Codes Sheet)
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- Available on request
- 2. Other cages available on request
- 3. Precision specifications can be found in the GMN Ball Bearing Catalog
- 4. For more information, please contact GMN USA engineers