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Bearing Units Expert and Leading Supplier

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Vật liệu của các đơn vị mạng

1. Materials of Bearings

The materials of the race and ball of bearing require enough hardness that meet the following qualities:

- (1). Large fatigue strength against repeated stress due to fatigue fracture of the race surface which governs the life of the bearings.
- (2). High limit of elasticity and high yield strength to prevent deformation when a large load is applied per unit area.
- (3). Large abrasion resistance against sliding friction between the retainer and the ball.
- (4). High strength against crack due to impact load and failure caused by improper fitting etc.
- (5). Small secular change in dimension and shape due to change of structure or internal stress.

GCr15 Steel <JIS G4805>(High carbon chromium bearing steel) satisfies the above comparatively well, and its chemical composition is shown in the following table.

Chemical composition of high carbon chromium bearing steel

Class	Standard	Symbol	Chemical Composition (%)					
			C	Si	Mn	P	S	Cr
1	GB	GCr15						
	DIN	100Cr6						
	ASTM	E5200	0.98-1.10	0.15-0.35	<0.50	<0.025	<0.025	1.30-1.60
	JIS	SUJ2						
2	GB	9Cr18						
	DIN	X105CrMO17						
	ASTM	440C	0.98-1.10	<1.00	<1.00	<0.025	<0.025	16.00-18.00
	JIS	SUC440C						

In order to maintain uniform quality of materials, FK keeps fully equipped installations and performs strict acceptance tests and inspections based on the strict acceptance standards in addition to JIS-standards.

Kinds of test done at the FK are mainly chemical analysis, magnetic exploration, ultrasonic exploration, corrosion by strong acid, inspection of structure by naked eyes, inspection of structure by microscope, crusher test and hardness etc.

2. Material of the Cage and the Rivet

The material of cage is JIS G3141(Cold rolled carbon steel sheet and strip)SPCC, and it is formed by the press. The material of the rivet is JIS G3507 (Low carbon steel wire rods)SWRCH 12A.

3. Materials of Housings

The material of the housings is FC200 JIS G5501 (Gray iron casting) and the mechanical properties are shown in the following table.

Mechanical properties of Gray cast iron HT200

symbol	Thickness (mm)	Dia. Of testing bar (mm)	Tension test	Traverse braking Test	Pressure Strength Test	Hardness	
			Tensile Strength	Bender Strength	Deflection	Hardness	
			(kgf/mm ²)	(kgf/mm)(mm)	kgf/mm ² (HB)		
	Over 6-8	13	Over 23	53	1.8	75	187-255

Over 8-15	20	Over 22	45	2.5	75	170-241
HT200 (FC200)	Over 15-30	30	40	2.5	75	170-241
	Over 30-50	45	34	3.0	75	170-241
	Over 50	60	31	4.5	75	163-229

Other Materials of Housings

Symbol	JIS number
FCD40(QT400)	JIS G5502
SPCC(08)	JIS G3141
SUS304	JIS G4304

4. Materials of Other Components

Components	Materials used	JIS symbols	JIS number
Sleeve for adapter	Carbon steel for machine structural use	S25C	JIS G4051
Nut for adapter	Carbon steel for machine structural use	S25C	JIS G4051
Washer for adapter	Cold rolled carbon steel sheet and strip	SPCC	JIS G3141
Oil seal	Synthetic nitrile rubber	-	-
Slinger	Cold rolled carbon steel sheet and strip	SPCC	JIS G3141
Hexagon set screw	Nickel chromium molybdenum steel	SCM 435	JIS G4105
Hexagon wrench key	Nickel chromium molybdenum steel	SNM630	JIS G4103
Grease nipple	Free cutting brass bar	C3604	JIS H3250

Tìm kiếm mang

Hãy là nhà phân phối của chúng tôi

Nhấn vào đây để đăng ký đại lý FK

Hãy là nhà phân phối của chúng tôi (http://vi.fk-bearing.com/fkbearing/contact_us.html)

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Luôn kết nối với bản tin hàng tháng của chúng tôi và là người đầu tiên biết về việc phát hành sản phẩm mới, giao dịch và ngành công nghiệp đặc biệt

Tin mới nhất



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