



Bearing No. 71800 ACD/HCP4

a	5.9 mm
d	10 mm
D	19 mm
B	5 mm
C	5 mm
dh	13,4 mm
D2	– mm
d1	13,1 mm
d2	13,1 mm
D1	16,1 mm
Db max	18,2 mm
db min	12 mm
Weight	0,005 Kg
rb max.	0,15 mm
ra max.	0,3 mm
Da max.	17 mm
r4 min.	0,15 mm
da min.	12 mm
r3 min.	0,15 mm
r2 min.	0,3 mm
r1 min.	0,3 mm
Size (mm)	10x19x5
Width (mm)	5
Mass bearing	0.005 kg
d ₁	13.1 mm
d _n	13.4 mm
D ₁	16.1 mm
d ₂	13.1 mm
Bearing number	71800 ACD/HCP4
Number of balls z	12

d_a min.	12 mm
d_b min.	12 mm
D_a max.	17 mm
D_b max.	18.2 mm
r_a max.	0.3 mm
r_b max.	0.15 mm
Bore Diameter (mm)	10
Outer Diameter (mm)	19
Calculation factor e	0.68
Calculation factor f	1.05
$r_{1,2}$ min.	0.3 mm
$r_{3,4}$ min.	0.15 mm
(Oil) Lubrication Speed	130 000 r/min
Fatigue load limit (Pu)	0,04
(Grease) Lubrication Speed	85 000 r/min
Ball diameter D_w	2.381 mm
Basic dynamic load rating C	1.78 kN
Basic dynamic load rating (C)	1,78 kN
Preload class A G_A	16 N
Preload class B G_B	48 N
Preload class C G_C	100 N
Basic static load rating (C0)	0,93 kN
Calculation factor f_1	0.97
Fatigue load limit P_u	0.04 kN
Calculation factor f_{HC}	1.02
Calculation factor f_{2C}	1.17
Calculation factor f_{2B}	1.09
Calculation factor f_{2A}	1
Basic static load rating C_0	0.93 kN

Static axial stiffness, preload class C	72 N/ μ m
Static axial stiffness, preload class B	52 N/ μ m
Static axial stiffness, preload class A	34 N/ μ m
Attainable speed for grease lubrication	85000 r/min
Attainable speed for oil-air lubrication	130000 r/min
Reference grease quantity G_{ref}	0.06 cm ³
Calculation factor (single, tandem) Y_2	0.87
Calculation factor (single, tandem) Y_0	0.38
Calculation factor (single, tandem) X_2	0.41
Calculation factor (back-to-back, face-to-face) Y_1	0.92
Calculation factor (back-to-back, face-to-face) Y_2	1.41
Calculation factor (back-to-back, face-to-face) Y_0	0.76
Calculation factor (back-to-back, face-to-face) X_2	0.67