



### Bearing No. 6816

D	100 mm
C	10 mm
B	10 mm
d	80 mm
f0	16
Noun	Bearing
Mass	0.15 kg
Bore	3.15 Inch   80 Millimeter
r min.	0,6 mm
UNSPSC	31171504
Weight	0,154 Kg
ra max	0.6 mm
Da max	96 mm
da min	84 mm
rs min	0.6 mm
da max	85 mm
da min.	84 mm
Da max.	96 mm
ra max.	0,6 mm
Category	Single Row Ball Bearing
Inventory	0.0
Snap Ring	No
Size (mm)	80x100x10
Enclosure	Open
Nlim (oil)	7,100 rpm
Width (mm)	10
Weight / LBS	0.331
Product Group	B00308
Nlim (grease)	6,000 rpm
Inch - Metric	Metric

Cage Material	Steel
Bearing number	6816
Keyword String	Ball
Other Features	Deep Groove
Dynamic load, C	12.7 kN
Rolling Element	Ball Bearing
Precision Class	ABEC 1   ISO P0
Static load, C0	13.3 kN
Manufacturer URL	<a href="http://www.ntnamerica.com">http://www.ntnamerica.com</a>
Long Description	80MM Bore; 100MM Outside Diameter; 10MM Outer Race Width; Open; Ball Bearing; ABEC 1   ISO P0; No Filling Slot; No Snap Ring; No Internal Special Features; C0-Medium Internal Clearance; Steel Cage
Outer Race Width	0.394 Inch   10 Millimeter
Inner Race Width	0 Inch   0 Millimeter
Outside Diameter	3.937 Inch   100 Millimeter
Weight / Kilogram	0.154
Manufacturer Name	NTN
Bore Diameter (mm)	80
Internal Clearance	C0-Medium
Outer Diameter (mm)	100
Minimum Buy Quantity	N/A
Fatigue limit load, Cu	0.6 kN
Harmonized Tariff Code	8482.10.50.68
Radial clearance class	CN
(Oil) Lubrication Speed	7 100 r/min
Internal Special	No

Features	
(Grease) Lubrication Speed	6 000 r/min
Basic dynamic load rating (C)	12,7 kN
Basic static load rating (C0)	13,3 kN
Min operating temperature, Tmin	-20 °C
Max operating temperature, Tmax	120 °C
Maximum Capacity / Filling Slot	No
Characteristic cage frequency, FTF	0.47 Hz
Characteristic inner ring frequency, BPI	14.33 Hz
Characteristic outer ring frequency, BPF0	12.67 Hz
Characteristic rolling element frequency, BSF	16.14 Hz