

MEGAOHM™ 7MC3 Series Ceramic Insulated Ball Bearings



The increase in volume of variable frequency drive (VFD) electric motors as well as other machines where electrical currents are present has demanded the need for insulated bearings. Electrical currents can flow through the bearing causing electrical arcing damage to the rolling contact surfaces, ultimately leading to bearing failure. Electrical pitting and fluting can be prevented with ceramic coated bearings.

Coated bearings

NTN's MEGAOHM 7MC3 Series of insulated bearings has been specifically designed to prevent electrical arcing in a variety of applications. Coating the bearing's outer ring provides an insulating barrier against any stray currents that would pass through it.

Trusted by OEMs

MEGAOHM 7MC3 Series insulated bearings are designed to resist electric current damage and offer protection to costly equipment which is why they are used by OEMs for wind turbine generators, traction motors, paper and textile rolls, VFD and other electric motors used across many industrial applications.

MEGAOHM 7MC3 Series Advantages

- Ceramic coated for electrical insulation that prevents electrical pitting and fluting
- Drop-in replacement for standard bearings
- Cost-effective solution to combat stray electric currents

MEGAOHM 7MC3 Series vs. The Competition

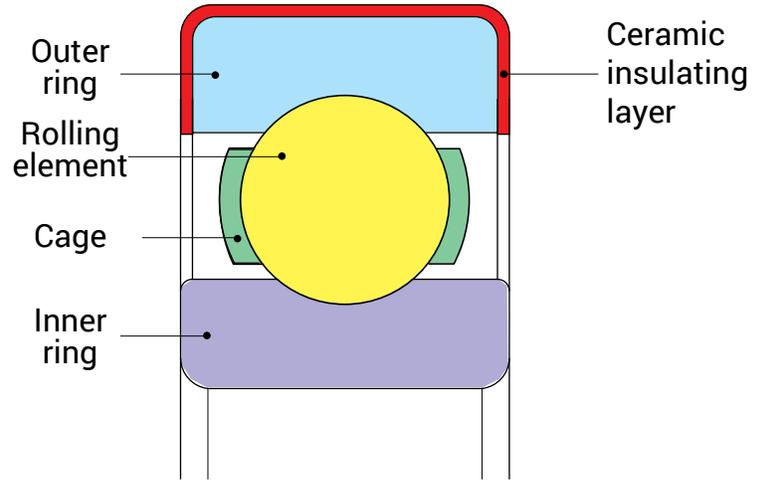
	NTN 7MC3	Leading Competitor
Coating Thickness	0.2 mm	0.1 mm
Electrical Resistance at 500 V (DC)	> 2,000 MΩ	> 100 MΩ
Voltage Resistance	> 3 kV	< 3 kV
Chipping (Drop test up to 0.8 m)	0 of 8 chipped	3 of 8 chipped

Ceramic Insulated Bearing - 6200 Series

7MC3-6215C3
 7MC3-6216C3
 7MC3-6217C3
 7MC3-6218C3
 7MC3-6219C3
 7MC3-6220C3
 7MC3-6222C3
 7MC3-6224C3
 7MC3-6226C3
 7MC3-6228C3
 7MC3-6236C3

Ceramic Insulated Bearing - 6300 Series

7MC3-6310C3
 7MC3-6311C3
 7MC3-6312C3
 7MC3-6313C3
 7MC3-6314C3
 7MC3-6315C3
 7MC3-6316C3
 7MC3-6317C3
 7MC3-6318C3
 7MC3-6319C3
 7MC3-6320C3
 7MC3-6322C3
 7MC3-6324C3
 7MC3-6326C3
 7MC3-6328C3
 7MC3-6330C3



Deep Groove Ball Bearing

Beyond Bearings

Training. Installation Support.
 Trouble-shooting. And more.

When you choose NTN, your team is equipped with all the necessary tools and resources to get the job done right. From installation to problem-solving, we'll be there with the hands-on support you need to take on your toughest challenges. This includes extra services such as:



Technical Training Unit

On-site, mobile training unit offering specialized, hands-on instruction from NTN engineers



Product Training School

Three days of in-depth instruction from our engineers at NTN headquarters (go.ntnamericas.com/trainingschool)



eKnowledge

WEB-BASED TRAINING PROGRAM

Six online product training modules covering different bearing types and nomenclature (www.ntnamericas.com/eknowledge)



NTN Bearing Finder

Customizable search tool featuring exhaustive data sets, comprehensive part interchanges and interactive CAD drawings (bearingfinder.ntnamericas.com)