(CK BIRLA GROUP





HCR Wear Resistance Bearings

Wear resistance coating on rolling element helps to avoid metal to metal contact in dry and low lambda lubricated condition.

Features

- Optimized coating with metal-containing amorphous carbon coating with a multilamellar structure
- No columnar structure provides high adhesion strength
- Provides wear protection even in dry contact condition
- High dimensional accuracies

Benefits

- Higher operational reliability
- Low COF even in dry condition with steel
- Resistant to adhesive wear and micro pitting
- Enhanced low lambda fatigue life
- Debris tolerance removes dents created in the contaminated application

Application

- High speed roller bearings for automotive application
- Industrial bearings (contaminated lubrication condition)

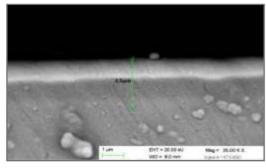


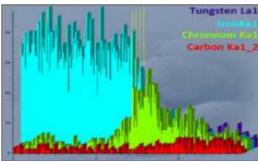




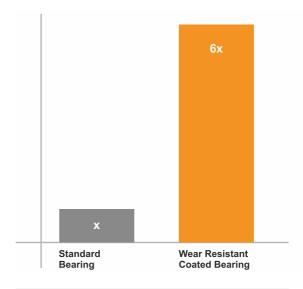
- Coating thickness of 2-3 μm
- ✓ Low coating temperature (<200 °C)
- → High dimensional accuracy after coating
- → High adhesion strength (HF1 to HF2 grade)
- ✓ Low COF and high wear resistance
- → >6x improved in bearing endurance life test
- Can be applied to any kind of roller bearing

Technical Data





SEM Coating Thickness



Roller Bearing Endurance Test Comparison

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