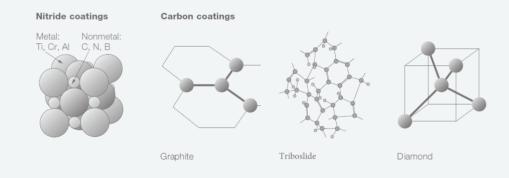


ACB TriboSlide® Coating



Argentina - Bolivia - Brazil - Canada - Chile - China - Colombia - Costa Rica - Dominican Republic Ecuador - El Salvador - Guatemala - Honduras - Italy - Mexico - Nicaragua - Panama - Peru - Spain - USA





Introduction ACB TriboSlide® Coating

Properties

Metal-containing amorphous carbon coating with a multilamellar structure. Phases rich in tungsten carbide and carbon alternate every few atomic layers, giving a very low coefficient of friction at dry running.

Advantages

Guards against wear and corrosion and reduces friction

Low coefficient of friction

Increases surface hardness

Tolerate greater loads

Lower energy consumption

High hardness

Excellent replication of contours

High level of protection against abrasive and adhesive wear together with preservation of the friction partner

Benefits

ACB Triboslide[®] coating is highly resistant to adhesive wear (scuffing) in particular. It has a high load-bearing capacity even under conditions of deficient lubrication or dry contact.

Common applications

Dry friction against steel is reduced by up to 80%

If only one friction surface is coated, the operating life of the entire tribological system is increased considerably

Due to its highly ductile coating structure, ACB Triboslide[®] can withstand the high contact pressures that occur in rolling bearing applications.

Bearing components such as rolling elements, inner rings, outer rings, and axial bearing washers Yoke and stud type track rollers.





Feature	Coating
Composition	a-C:H:Me (functional layer)
Colour	Hard coal
Layer thickness	0,5 °m – 4 °m
Friction reduction	Up to 80% with TriboSlide coating/ steel in comparison with steel/ steel (in dry state)
Hardness	> 1000 HV





Coefficient of friction ACB TriboSlide® Coating





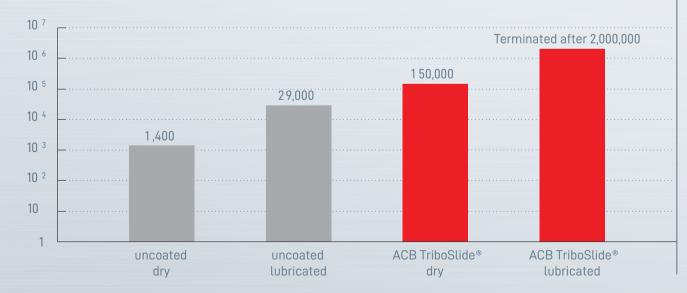
Higher scuffing resistance of ACB Triboslide® coated bearing components and gears under poor lubricating conditions

In a bearing and gear test, unlubricated ACB Triboslide[®] coated bearing components and gears achieve a longer lifetime than poorly lubricated, uncoated bearings components and gears.

The best results are achieved with coating and lubrication: coatings are, however, never a substitute for a well lubricated system.

ACB TriboSlide® Coating wheel wear in dry running and starved lubrication

Number of load cycles





Uncoated

ACB TriboSlide® Coated



Pitting resistance of roller bearings ACB TriboSlide® Coating

ACB Triboslide[®] coating increases pitting resistance of roller bearings

Coating of bearing rollers with **ACB Triboslide**[®] coating improves pitting resistance. Bearings thereby exhibit longer service life and better reliability.

Excellent running-in behavior, low friction, and anti-galling properties due to formation of an effective barrier between metal/metal contacts; effectively suppress metal structural damages such as white etch cracks and, ultimately, fatigue failure.

