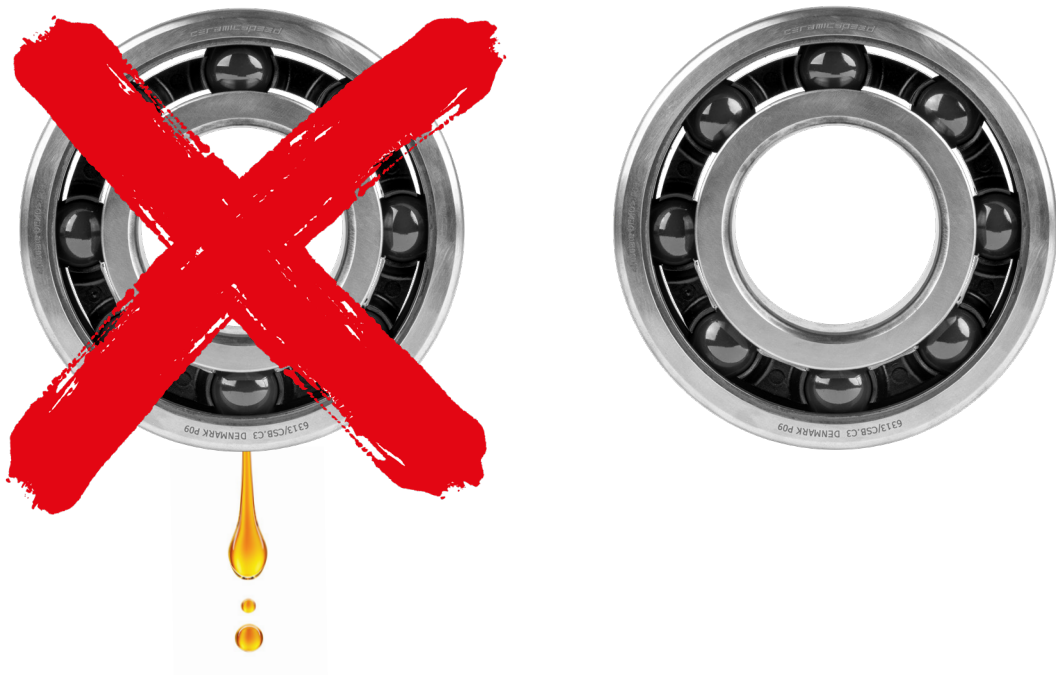


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CeramicSpeed SlipCoat

# When Only the Cleanest Is Good Enough



*CERAMICSPEED*

# CeramicSpeed SlipCoat - When Only the Cleanest Is Good Enough

We have received the question more than once – and in recent times more and more often: Can you make a bearing run without lubrication? So far, our answer has been the same “All bearings can run without lubricant - but not for very long time”.

The underlying demand has however triggered our imagination. How to provide a solution for applications where ANY tiny drop of oil could ruin products, processes, or sensitive environments?

So, when one of our good customers gave us the exact challenge of making a “lubrication free” bearing where no dripping or splatter of lubricant was acceptable and with a run time of more than 3.000 hours of operation, we gave the challenge to our in-house specialists. It took them 3 iterations to achieve a solution capable of meeting the specified target.

## Solution tested:

Ball bearing size 6202

Stainless steel rings (AISI440C)

Silicon Nitride rolling elements

CeramicSpeed SlipCoat treatment

## Limitations

As the coating remains soft it creates some friction in the bearing. Hence the solution is not recommendable where low friction / high speed is a key performance focus.

CeramicSpeed SlipCoat is available in any ball bearing configuration with short lead time!

## Technical Highlights

- Coating material is FDA and EN/1935 compatible
- Functional in temperatures from -20 until 260 C
- Extremely chemically inert
- Transparent / colorless