

WSR COATING

Datasheet

What is WSR (Weld Spatter Resistant)?

WSR is a coating that is resistant to weld spatter and has been specially tested for the requirements in a weld spatter environment. It is also highly wear resistant and therefore has a long life cycle.

The AlCrN-coating can be applied to a pure steel pin:

- Extreme hardness,
- Abrasion resistance,
- Low coefficient of friction,
- Anthracite colored
- Chemical resistance,
- Weld spatter resistant
- Coated on steel pin = full steel pin advantages

Coating process:

The AlCrN layer is coated by PVD (engl. Physical Vapor Deposition; Physical vapor deposition for example by evaporation or sputtering) at the locating pin.

Advantages

- Increase process reliability based on high wear and welding spatter resistance
- Longer lifecycle = cost reduction for spare parts
- Increasing product quality, based on very smooth surface
- Prevented welding spatter adhesion / welding spatter can be removed with a simple cloth
- Due to full steel pin, great advantage over previous ceramic pins (no breaking, no detachment of the ceramic sleeve, no internal steel core, longer running time)



Properties	WSR
Composition	AlCrN-based
Color	Grey
Hardness [HV]	4000
Thickness [µm]	4±2
Coefficient of friction against steel, dry	0.15 - 2
Surface roughness Rz [µm]	<1
Architecture	Two layer
Coated material	EN 1.2379
Coating process	PVD
Area of application	locating / positioning of steel parts, welding spatter environment, high wear on positioning pins everywhere where process reliability and long life cycles are important