

## ELECTROSTATIC POWDER COATING



Electrostatic powder coating is an environmentally friendly, solvent-free, universally applicable coating method. It can be used to create technical coatings for corrosion protection, but also decorative surfaces. With powder coating, electrostatically or tribostatically charged powder is applied to the pre-treated and dried parts. The coat produced during the curing process is characterised by particularly high abrasion and chemical resistance.

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## PROCESS FLOW

Before the powder coating can be applied, the components to be coated, which are suspended from appropriate fixtures, need to pass through various pre-treatment stages. These vary depending on the condition as delivered and the base material and may be steel, cast materials, aluminium or magnesium alloys. All baths are under constant analytical monitoring to ensure consistently high quality of the subsequent powder coating. In addition to their optical quality, the final power coatings are resistant to chemicals and weather and withstand mechanical stresses such as stone chipping. The enclosed online systems at BENSELER guarantee economical first run rates, even for optically very demanding parts.

## CHARACTERISTICS

- applicable to steel, iron materials, cast materials, galvanised iron materials, aluminium, magnesium
- achievable layer thicknesses of between $40 \mu \mathrm{~m}$ and $300 \mu \mathrm{~m}$
- meets global specifications of the automotive industry
- adhesion cross-cut test Gt 0-1
- resistant to chemicals such as common fuels, brake fluids, oils and solvents


## LOCATIONS:

## BENSELER

## BENSELER

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