

BONDERITE®



Exceptional corrosion protection.

**BONDERITE® Electro-Ceramic Coating (ECC) –
outstanding features for light metals.**

BONDERITE® – Upgrades your standards.



Exceptional properties in every dimension.

BONDERITE Electro-Ceramic Coating processes provide excellent corrosion, temperature and chemical resistance, while offering extreme anti-abrasion properties. The improved characteristics combine lower process costs, the option to replace steel parts by aluminium and magnesium and bring added value to the final component.

Extraordinary corrosion protection

- High resistance to chemicals
- Temperature resistance up to 1,100 °C
- Layer thickness can vary from 3 to 50 µm

Reduced friction – improved wear

- Low coefficient of friction in all conditions
- Extremely high wear resistance in abrasive environments

Clearly eco-friendly

- Reduction of emissions in combustion engines
- Weight reduction opportunities by using light metals instead of steel
- 100 % heavy metal free, no chrome components
- RoHS and ELV compliant



Reduced process costs

- Possibility to have reduced production footprint
- Less process steps/ time compared to traditional methods



Application areas

Components made out of aluminium, magnesium, titanium and related alloys in severe environments, e.g.:

- Marine engines, exhaust parts, outboards
- Parts for automotive, heavy trucks and aerospace
- Small engines, e.g. lawn or garden equipment
- Consumer electronics and cookware
- Architecture and outdoor furniture

Henkel services

- Electro-Ceramic Coating global supply
- Tailor-made solutions
- Worldwide process monitoring and support

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