ADVANCED SURFACE TREATMENTS

PROCESSES DATASHEET

ASTEC 4000 ZINC

Zinc electroplating has been around for a long time and became very popular as an early replacement for Cadmium and other toxic materials previously used for higher corrosion protection performance.

As new and better performing coatings have been developed, standard Zinc still remains a popular option in less demanding environments thanks to its aesthetically bright appearance and relatively lower cost structure.

As an electroplated coating, the final product produces a sacrificial layer that will corrode preferentially to the steel substrate. This means that unlike barrier coats, such as paint, the coating can still offer protection following in-service damage.

INDUSTRY SECTORS SUPPORTED

Automotive
Military
Defence
Construction
Rail
Renewable Energy
Mining
Electronics
General Engineering
Retail
Marine

OEM CUSTOMERS

KEY PROPERTIES

- **Alkaline, non-cyanide solution**
- **Low, uniform deposit thickness from 5 microns**
- **REACH compliant**
- **Available in clear, black & gold* finishes**
- **Available on mild and stainless steel substrates**
- **Up to 2.5m in length and 250kg**
- **Available with same day turnaround**
- **Whisker free**

KEY BENEFITS

- **Good corrosion protection**
- **Bright aesthetic appearance**
- **Good coverage**
- **Uniform coating deposit**
- **Good ductility for post bending and crimping**
- **Relatively lower costs**
- **Good thermal stability**

PERFORMANCE

	WC hrs	RC hrs
BLACK	120+	380+
CLEAR	240+	500+

Actual results are effected by many non-coating factors including substrate and component geometry.

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