

PROCESSES DATASHEET

ASTECC 2000 TIN ZINC

Tin Zinc is a very unique, high performance corrosion protection coating that offers a number of special characteristics and properties. Designed to not only provide superior levels of corrosion protection, proving more than a match for Zinc Nickel, it can also help product design requirements involving electrical conductivity/grounding and bonding of components through soldering/welding. The process is very common on high end fasteners and particularly those that make contact with aluminium or stainless components.

Tin Zinc provides a special coating as it offers a two prong resistance to corrosion. The Zinc metal provides a sacrificial layer that will corrode preferentially to the steel substrate, while the Tin alloy provides a barrier protection. This means the final coating can provide the best of the corrosion performance benefits of both electroplating and painting in one thin layer.

AST are currently the only UK applicator of this process and one of very few in Europe.

INDUSTRY SECTORS SUPPORTED

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

OEM CUSTOMERS



KEY PROPERTIES

- ||| Alkaline, non-cyanide solution
- ||| Tin content 70-90%
- ||| Low, uniform deposit thickness from 5 microns
- ||| REACH compliant
- ||| Available in clear trivalent
- ||| Barrel application
- ||| Whisker free

KEY BENEFITS

- ||| Excellent corrosion protection
- ||| Solderability & weldability
- ||| Electrical conductivity
- ||| Low melting point
- ||| Uniform coating deposit
- ||| Excellent ductility for post bending and crimping
- ||| No Nickel metal
- ||| Excellent resistance to sulphur enhanced, salt and acidic environments

PERFORMANCE

	WC hrs	RC hrs
CLEAR	500+	1500+

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

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www.astcoventry.co.uk