



INFORMATION SHEET – ANODISING

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Blackening on steel

Chemical blackening of steel provides a uniform black finish on steel, the film is a particular state of iron oxide which is black in appearance and on its own it has very little protective value.

It requires a protective coating of oil to prevent corrosion.

A dry coating will quickly revert to the more typical brown/rusty coloured oxidation state of iron and corrode very quickly.

The film is of negligible thickness and makes no discernible changes to the dimensions of the parts treated.

With the hot caustic blackening process, parts must be able to resist processing temperatures of up to 150°C.

It is not feasible to process mixed materials, for instance components that include copper such as bronze bushes, or brazed assemblies, as the copper will not blacken and will contaminate the blackening solution.

It is known as Blackodising, Chemical blackening, Chemi black.

Blackening on stainless steel

Blackening on stainless steel is also available (Mp Eastern have capacity for small machined components only).

There are a number of black oxide specifications available including;

- MIL-DTL-13924
- ISO 11408
- ASTM D769
- AMS 2485