

ALUMINIUM PASSIVATION

PROTECTION AGAINST CORROSION WITH BONDERITE/ALODINE AND SURTEC

Passivation is the creation of a non-metallic protective layer on a metallic material to prevent oxygen corrosion.

Due to their low surface resistance, passivations are very popular in the electronics industry. They are used in the aerospace, mechanical engineering and automotive industries due to their good corrosion protection and also serve as an adhesive base for paints. Passivations are technical coatings that can exhibit visual inhomogeneities. In addition to the passivation of aluminium mentioned here, BWB also offers passivation of stainless steel, titanium and pre-galvanised steel.



ADVANTAGES

- High corrosion resistance
- Electrical conductivity
- Constant surface resistance
- Ideal primer for paints
- Protection against infiltration of seals
- Aviation certified procedures and processes
- Compliant with MIL-DTL-81706-B and MIL-DTL 5541-F
- Chromium-free processes available

HANDLING

- Only touch components with clean, grease-free gloves.
- Use clean storage and transport containers.
- Avoid contamination; only clean the surface with suitable cleaning agents (acetone, MEK, ethanol, isopropanol).

APPLICATIONS

Chromium-containing passivations are mainly used in the aerospace industry, while chromium-free processes are recommended for the electrical industry and mechanical engineering.

Maximum component sizes: 1000 x 600 x 900 mm

- Bonderite M-NT 160/161 (Cr free)

Maximum component sizes: 3100 x 400 x 1100 mm

- Bonderite M-NT 400 (Cr free)
- Bonderite M-CR 1200 AERO
- Bonderite M-CR 1200 S AERO

Maximum component sizes: 5000 x 800 x 1800 mm

- Bonderite M-CR Alumigold
- SurTec 650 (Cr^{VI} free; RoHS-conform)