



## Corrosion

Corrosion is defined as the interaction of a metal with its environment, which leads to a change of the material properties and thereby limits the function of the metal, the environment or the technical system of which the metal is a part.

EC uses as a metallic raw material in some of its products aluminum – upon customer demand also other metals.

As all metals except for the precious metals are affected by corrosion, it is therefore in the entire responsibility of the user to check his application environment for corrosive elements and influences and to undertake all necessary measures to protect the product from corrosion according to the state of the art.

## Aluminum

In its metallic form aluminum is a relatively reactive material. Fortunately a thin oxidation layer forms rapidly and protects the metal from further corrosive attacks. Thanks to this oxide layer aluminum is suitable for a wide range of applications and environments

In case of a damaged oxide layer or in certain application environments aluminum can corrode permanently. Therefore even products that use aluminum alloy types that are graded as „corrosions resistant“ or „sea-water resistant“ (for example AL 5057) require an additional corrosion protection.

Special attention has to be paid to the protection of all edges and open surfaces.

In case in one product there are other metals used beside Aluminum there must be paid attention to a proper isolation between the different metals in order to prevent contact corrosion.

As EC can not have complete knowledge of the application environment and its actual and potential corrosive elements and threats it is in the entire responsibility of the user of the products to provide a sufficient corrosion protection.

## Disclaimer

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