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## **A study of the streaking on aluminum 6063**

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**Abstract:** Surface appearance is an important characteristic of high quality aluminum extrusions ,especially for architectural applications in the building and construction industries.

Defect such as streaking are often present on anodized extrusions of 6xxx series aluminum alloys, increasing the fabrication cost of these extrusion profiles.

Streaking on the surfaces of anodized extrusions is typically characterised by narrow bands of different contrast to the neighbouring materials.

The streak bandy may appear darker or lighter , brighter or duller , in color and tone than the remainder of the surface

.these lines in these areas is related to accumulation of impurities .

The selective corrosion of etching solution , resulted to differences in surface and this line would appear.

Many factors that affect on accumulation of impurities on the surface .

By controlling and studying the effect the parameter we will be able to achieve desired surface after anodizing is done. In this article we will study the factors effect on the appear of streaking on aluminum 6063.

**Keywords:** quality, impurities, streaking, extrusion, etching