

The changes of surface potential and built-in charge in alumina films after the anodization process

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Abstract: We have shown that the surface potential of anodic alumina films changes in time: immediately after the anodization process it was positively followed by the substantial decrease to negative values. Such variations of the surface potential can be associated with the negative

built-in electric charge in alumina. The highest negative charge density occurs in the films formed in citric and phosphoric electrolytes.

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