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Materials Beyond Imagination

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Aluminum on Microscope Slides

Aluminum is one of the most widely used metals. Aluminum is light weight, a good conductor of heat and electricity, and has high reflectivity. Aluminum is often used for reflective optical components in telescopes, headlamps and LEDs. A thin surface layer of oxide forms at the air interface of the aluminum film, which protects the metal against corrosion.

In research and development, aluminum thin films find use in the following applications:

Synthesis of Nanoporous aluminum oxide via anodization

Aluminum oxide nanopores for bio sensors

Plasmonic devices

Reflective coatings

Patterned surface electrodes (finger-type, interdigitated)

Aluminum Coated on Microscope Slides (5 Slides) has Microscope glass slides (aluminosilicate) coated with 100-nm film of pure aluminum (99.999% purity), 1 inch x 3 inches x 0.7 mm, 5 slides per pack.



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