



Technical Data Sheet

ACS Material Double-Pass AAO Templates

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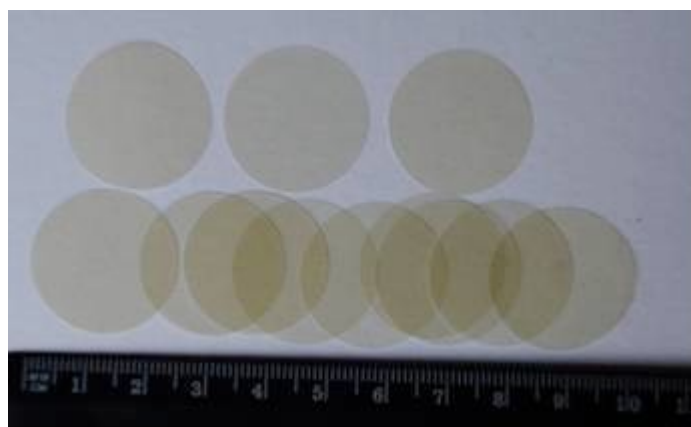
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Revision: 011519

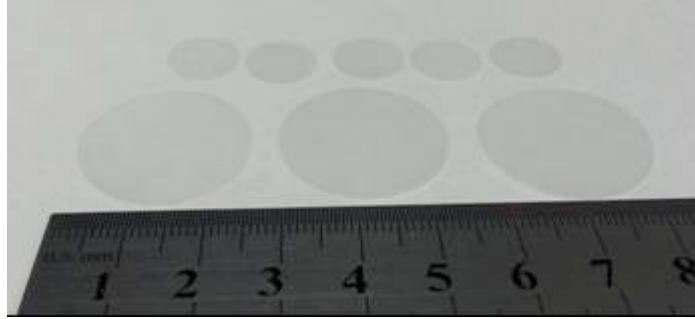
1. Structure Features

Types of Double-Pass AAO Templates

Product No.	Aperture (nm)	Hole Depth (μm)	Hole Cycle (nm)	Circular Diameter (cm)
A2010011	50	50-70	110	1.2
A2020011	70	50-70	110	1.2
A2030011	90	50-70	110	1.2
A2041011	200	50-70	450	1.2
A2051011	300	50-70	450	1.2
A2061011	400	50-70	450	1.2
A2010021	50	50-70	110	2.5
A2020021	70	50-70	110	2.5
A2030021	90	50-70	110	2.5
A2041021	200	50-70	450	2.5
A2051021	300	50-70	450	2.5
A2061021	400	50-70	450	2.5

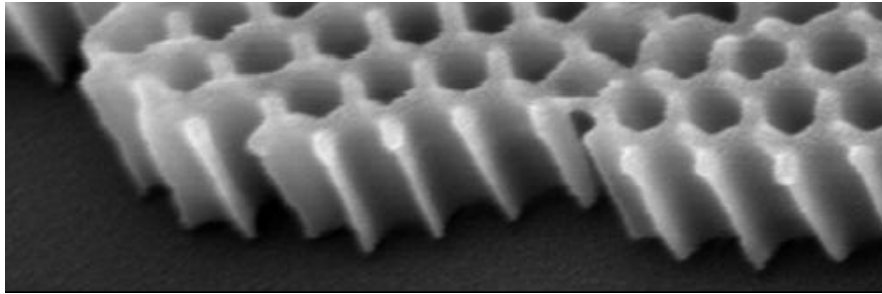


Double-Pass AAO Templates Circular, Aperture 50nm or 100nm

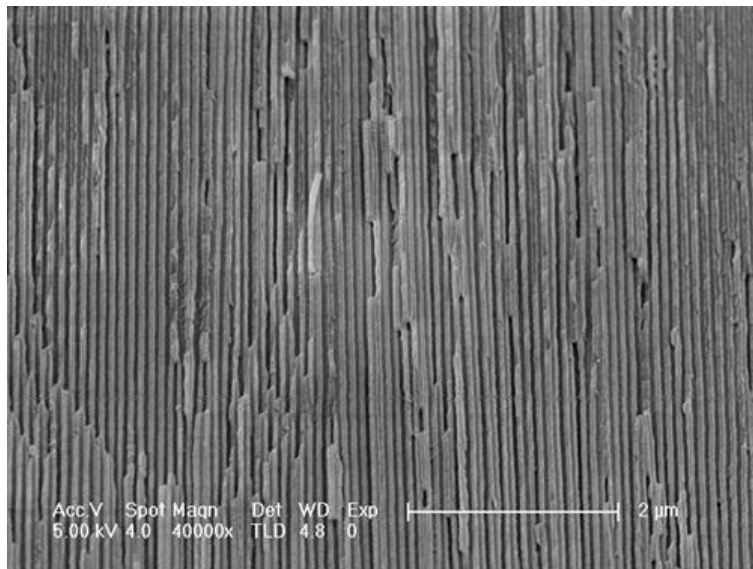


Double-Pass AAO Templates Circular, Aperture 200nm or 300nm

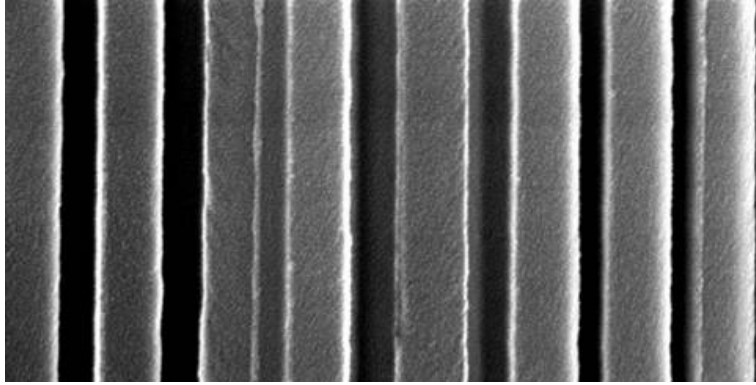
2. Characterizations



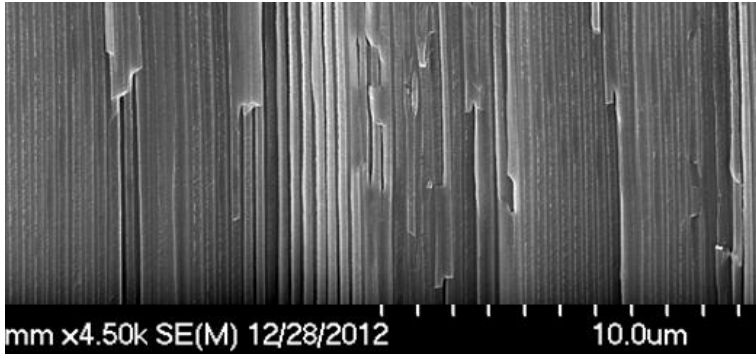
SEM image of ACS Material Double-Pass AAO Templates Cross Section (1)



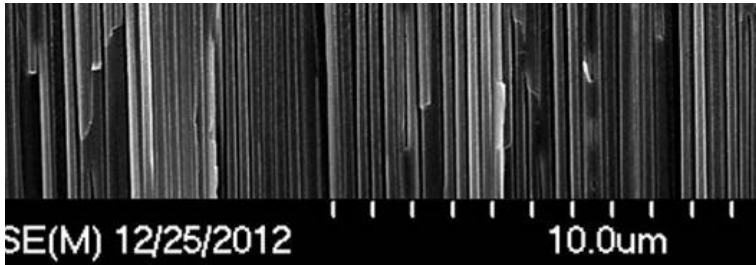
SEM image of ACS Material Double-Pass AAO Templates Cross Section (2)



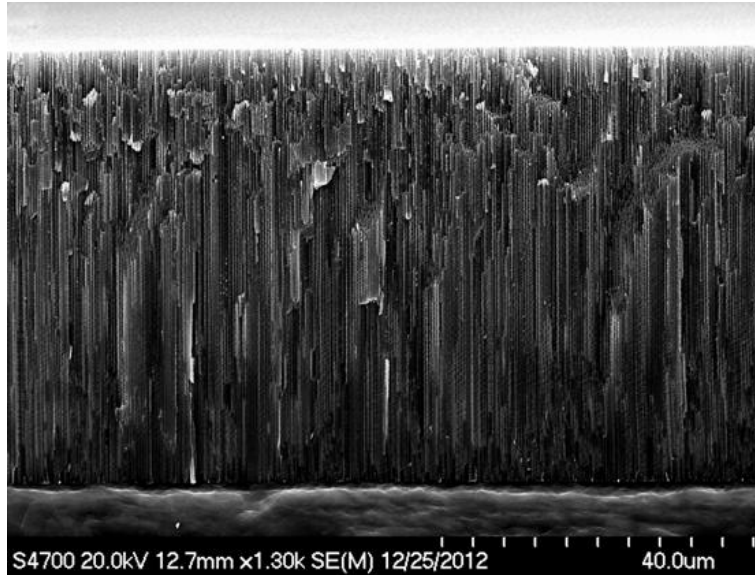
SEM image of ACS Material Double-Pass AAO Templates Cross Section (3)



SEM image of ACS Material Double-Pass AAO Templates (1)



SEM image of ACS Material Double-Pass AAO Templates (2)



SEM Image of ACS Material Double-Pass AAO Templates (3)

ACS Material provides the following custom order services:

- 1) Improve the wear resistance of the lubricating oil
- 2) Large size or special parameter AAO Templates.
- 3) Transfer of ultrathin AAO. The present standard product: 50-400 nm pore diameter, 110-450nm interpore distance, and 5-50um thickness.

3. Applications

- 1) As a mask for nanodot or quantum dot array by deposition methods
- 2) As an etching mask for nanopore array on substrates
- 3) Nano-imprinting template for nanostructures on softer surfaces, especially polymer surfaces.
- 4) For substrates: Transfer to silicon, silicon oxide, ITO, glass, copper, HOPG etc.

ACS Material must assume that the surface of any provided substrates have been thoroughly cleaned and cannot take responsibility for pre-existing impurities. Please call with your particular requirements.

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