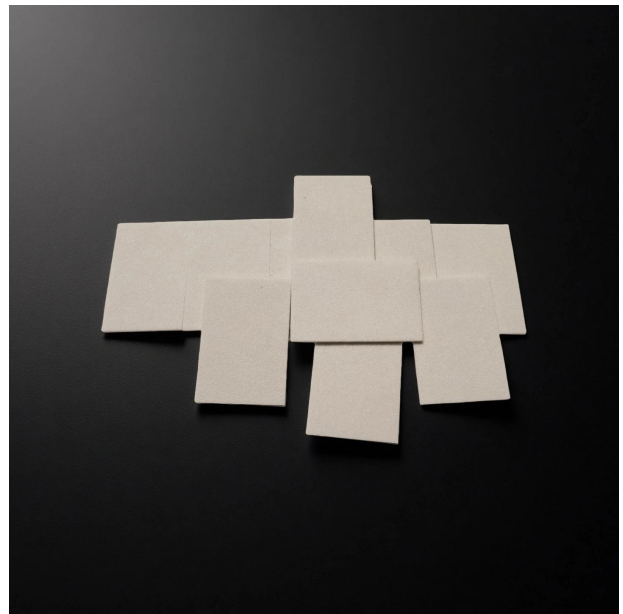


PRODUCT CATALOG

Microporous Alumina Plates

Custom discs and plates for vacuum workholding, gas distribution and liquid filtration



Product photographs: circular discs, square plates and rectangular plates. Images show product forms; select specifications from the tables or your drawing.

Custom shapes and dimensions. Circular, square and rectangular formats tailored to your drawing.

Pore selection for your process. Match the pore requirement to the medium, working area and operating pressure.

Protective packaging. PE film wrapping and foam trays protect plate surfaces during transport.

ADCERAX is a China-based advanced ceramics manufacturer for custom precision ceramic components.

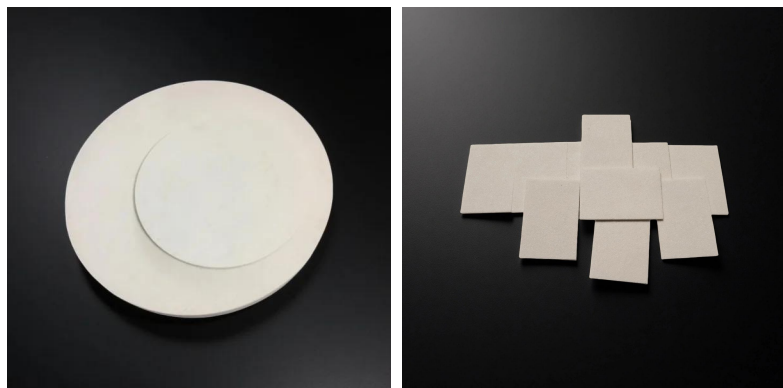
[Send your drawing to info@adcerax.com](mailto:info@adcerax.com)

[View microporous alumina plates](#)

PRODUCT SELECTION

Choose the plate for your application

Start with the plate shape and the result your equipment needs to achieve. Use a listed configuration as a reference, or send a drawing for a custom size.



Product photographs: circular discs and flat sheets. Pore size and material selection follow the specified configuration.

Vacuum workholding. For thin sheets, films and other workpieces. Send the workpiece footprint, coverage and vacuum conditions; evaluate holding, release and surface effects in the intended fixture.

Gas distribution and fluidisation. For distributing gas through a porous face. Define the medium, exposed area and flow target; include powder properties and bed depth for fluidisation duties.

Liquid filtration. Define the feed, solids and retention target. Specify whether the duty needs a porous filter body or a selective membrane layer, then assess the appropriate plate construction.

Find the information you need

Circular disc specifications	3–5
Square and rectangular sheet specifications	6–8
Black plate series and pore selection	9
Custom shapes and drawing requirements	10
Sample evaluation and packaging	11
Request a quotation	12

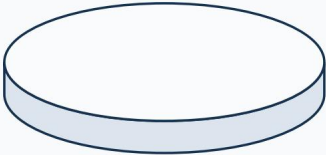
Catalog values apply to the listed combinations. Custom dimensions are reviewed separately; quotation and the agreed drawing define the order specification.

CIRCULAR DISCS

Circular disc specifications 1 of 3

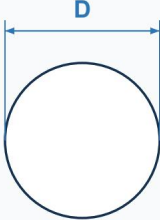
AT-FT-5001 to AT-FT-5016 | Catalog configurations

3D RECOGNITION



Circular disc

GOVERNING DIMENSIONS



Top view



Side view

Technical illustration • Not to scale

D = diameter T = thickness

Item No.	Diameter D (mm)	Thickness T (mm)	Pore size (µm)	Alumina purity (%)
AT-FT-5001	5.5	3	0.1	96
AT-FT-5002	15	3	25	96
AT-FT-5003	15	3	0.2	96
AT-FT-5004	20	2	2	96
AT-FT-5005	20.5	4	0.8	96
AT-FT-5006	21	1	0.2	96
AT-FT-5007	21	1	0.1	96
AT-FT-5008	21	1	1	96
AT-FT-5009	22	2	2	96
AT-FT-5010	22	2	0.1	96
AT-FT-5011	22	2	0.05	96
AT-FT-5012	26.2	3	1	96
AT-FT-5013	28	3	10	96
AT-FT-5014	28	4	1	96
AT-FT-5015	28.5	3	0.8	96
AT-FT-5016	28.5	3	1	96

Each row is one catalog configuration. Pore size is a selection reference; confirm the measurement method for your application. It is not an absolute filtration rating. Values are not freely interchangeable between rows.

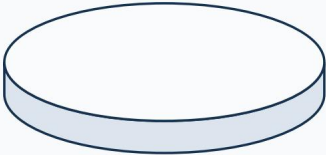
Need a different size? Send the required diameter, thickness, pore requirement and quantity with your drawing. Tolerances and delivery are confirmed in the quotation.

CIRCULAR DISCS

Circular disc specifications 2 of 3

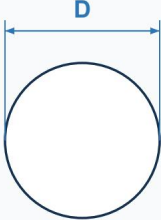
AT-FT-5017 to AT-FT-5032 | Catalog configurations

3D RECOGNITION



Circular disc

GOVERNING DIMENSIONS



Top view



Side view

Technical illustration • Not to scale

D = diameter T = thickness

Item No.	Diameter D (mm)	Thickness T (mm)	Pore size (µm)	Alumina purity (%)
AT-FT-5017	28.5	5	1	96
AT-FT-5018	29	2	0.8	96
AT-FT-5019	29	3	0.5	96
AT-FT-5020	29	6	0.2	96
AT-FT-5021	31.5	3.5	0.2	96
AT-FT-5022	31.5	4.5	1	96
AT-FT-5023	38	2	2	96
AT-FT-5024	38	2	0.1	96
AT-FT-5025	38	2	0.05	96
AT-FT-5026	38.5	3	1	96
AT-FT-5027	47	5	30	96
AT-FT-5028	47.5	3	0.2	96
AT-FT-5029	47.5	4	30	96
AT-FT-5030	47.7	2.5	0.2	96
AT-FT-5031	47.7	3.5	0.2	96
AT-FT-5032	47.7	4.5	50	96

Each row is one catalog configuration. Pore size is a selection reference; confirm the measurement method for your application. It is not an absolute filtration rating. Values are not freely interchangeable between rows.

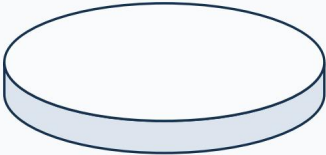
Need a different size? Send the required diameter, thickness, pore requirement and quantity with your drawing. Tolerances and delivery are confirmed in the quotation.

CIRCULAR DISCS

Circular disc specifications 3 of 3

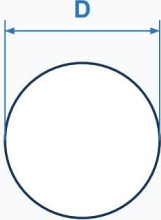
AT-FT-5033 to AT-FT-5049 | Catalog configurations

3D RECOGNITION



Circular disc

GOVERNING DIMENSIONS



Top view



Side view

Technical illustration • Not to scale

D = diameter T = thickness

Item No.	Diameter D (mm)	Thickness T (mm)	Pore size (µm)	Alumina purity (%)
AT-FT-5033	48.5	3	0.2	96
AT-FT-5034	48.5	5	0.2	96
AT-FT-5035	49.5	4.5	30	96
AT-FT-5036	49.5	4.5	50	96
AT-FT-5037	50	2	0.2	96
AT-FT-5038	52	3	2	96
AT-FT-5039	52	3	0.1	96
AT-FT-5040	52	3	0.05	96
AT-FT-5041	66	3	2	96
AT-FT-5042	66	3	0.1	96
AT-FT-5043	66	3	0.05	96
AT-FT-5044	88	3	2	96
AT-FT-5045	88	3	0.1	96
AT-FT-5046	88	3	0.05	96
AT-FT-5047	108	3.5	2	96
AT-FT-5048	108	3.5	0.1	96
AT-FT-5049	108	3.5	0.05	96

Each row is one catalog configuration. Pore size is a selection reference; confirm the measurement method for your application. It is not an absolute filtration rating. Values are not freely interchangeable between rows.

Need a different size? Send the required diameter, thickness, pore requirement and quantity with your drawing. Tolerances and delivery are confirmed in the quotation.

SQUARE AND RECTANGULAR SHEETS

Sheet specifications 1 of 3

Catalog configurations | Dimensions in mm

3D RECOGNITION



Square or rectangular plate

GOVERNING DIMENSIONS



Top view



Side view

Technical illustration • Not to scale

L = length W = width T = thickness

Item No.	Length L (mm)	Width W (mm)	Thickness T (mm)	Pore size (µm)	Alumina purity (%)
AT-FT-6001	10	10	1	0.05	96-98
AT-FT-6002	20	20	1	25	96-98
AT-FT-6003	25	25	3	0.2	96-98
AT-FT-6004	30	30	1	2	96-98
AT-FT-6005	30	30	2	0.8	96-98
AT-FT-6006	35	35	1	0.2	96-98
AT-FT-6007	40	40	1	0.1	96-98
AT-FT-6008	40	40	5	1	96-98
AT-FT-6009	50	50	1.5	2	96-98
AT-FT-6010	50	50	5	0.1	96-98
AT-FT-6011	60	60	1	0.05	96-98
AT-FT-6012	70	70	2	1	96-98
AT-FT-6012	70	70	3	10	96-98
AT-FT-6013	80	80	3	1	96-98
AT-FT-6014	80	80	5	0.8	96-98
AT-FT-6015	80	110	5	1	96-98
AT-FT-6016	100	70	1.2	1	96-98
AT-FT-6017	100	84	1.5	0.8	96-98

An item number may identify more than one configuration. Quote the item number, full dimensions, pore size and purity together. Pore size is a selection reference, not an absolute filtration rating; confirm the measurement method for your application.

Custom sheet dimensions. Send your length, width and thickness with the working area, support layout and quantity. Other sizes are reviewed against your drawing.

SQUARE AND RECTANGULAR SHEETS

Sheet specifications 2 of 3

Catalog configurations | Dimensions in mm

3D RECOGNITION



Square or rectangular plate

GOVERNING DIMENSIONS



Top view



Side view

Technical illustration • Not to scale

L = length W = width T = thickness

Item No.	Length L (mm)	Width W (mm)	Thickness T (mm)	Pore size (µm)	Alumina purity (%)
AT-FT-6018	100	90	2.2	0.5	96-98
AT-FT-6019	100	100	2.5	0.2	96-98
AT-FT-6020	100	100	3.5	0.2	96-98
AT-FT-6021	108	100	1.5	1	96-98
AT-FT-6022	100	100	2.5	2	96-98
AT-FT-6023	100	100	3.2	0.1	96-98
AT-FT-6024	100	100	3.5	0.05	96-98
AT-FT-6025	100	100	4	1	96-98
AT-FT-6026	100	100	5	30	96-98
AT-FT-6027	109	109	1	0.2	96-98
AT-FT-6028	110	80	4	1	98
AT-FT-6029	110	110	5	0.2	96-98
AT-FT-6030	114	114	1	0.2	96-98
AT-FT-6031	120	120	1	0.5	96-98
AT-FT-6032	120	120	3	0.2	96-98
AT-FT-6033	125	125	2	0.2	96-98
AT-FT-6034	127	127	1	0.8	96-98
AT-FT-6035	127	127	1.5	0.8	96-98

An item number may identify more than one configuration. Quote the item number, full dimensions, pore size and purity together. Pore size is a selection reference, not an absolute filtration rating; confirm the measurement method for your application.

Custom sheet dimensions. Send your length, width and thickness with the working area, support layout and quantity. Other sizes are reviewed against your drawing.

SQUARE AND RECTANGULAR SHEETS

Sheet specifications 3 of 3

Catalog configurations | Dimensions in mm

3D RECOGNITION



Square or rectangular plate

GOVERNING DIMENSIONS



Top view



Side view

Technical illustration • Not to scale

L = length W = width T = thickness

Item No.	Length L (mm)	Width W (mm)	Thickness T (mm)	Pore size (µm)	Alumina purity (%)
AT-FT-6036	138	190	1	0.2	96-98
AT-FT-6037	138	190	1	2	96-98
AT-FT-6038	150	150	1.8	0.1	96-98
AT-FT-6039	150	150	1	0.05	96-98
AT-FT-6040	150	150	1.5	2	96-98
AT-FT-6014	150	150	2	0.1	96-98
AT-FT-6042	150	150	3	0.5	96-98
AT-FT-6042	150	150	5	2	96-98
AT-FT-6043	160	170	2.5	0.1	96-98
AT-FT-6044	180	180	2	0.8	96-98
AT-FT-6045	180	180	3	2	96-98
AT-FT-6046	180	180	5	0.1	96-98
AT-FT-6047	200	140	2	0.5	96-98
AT-FT-6048	200	165	3	30	96-98
AT-FT-6049	200	200	5	50	96-98
AT-FT-6050	220	220	2	1	96-98

An item number may identify more than one configuration. Quote the item number, full dimensions, pore size and purity together. Pore size is a selection reference, not an absolute filtration rating; confirm the measurement method for your application.

Custom sheet dimensions. Send your length, width and thickness with the working area, support layout and quantity. Other sizes are reviewed against your drawing.

BLACK PLATE SERIES

Black microporous alumina plate

AT-AO-WK001 is a separate catalog series. Select the size reference and pore requirement together with the intended duty.

Item No.	Size reference (inches)	Pore size (μm)	Porosity (%)
AT-AO-WK001	2, 3, 4, 5, 6, 8, 12	1–100	30–50

Series-level catalog references. Define the final outline, thickness, material composition and test criteria in the drawing and quotation. The listed ranges do not specify every possible combination.

Specify the pore result as well as the pore size

Pore size. State the pore designation and measurement method where specified. A body pore size does not by itself establish particle retention or filtration efficiency.

Porosity. Identify the required porosity definition and test method. This series value does not apply to the white discs and sheets in the preceding tables.

Flow and pressure drop. Provide the fluid, temperature, exposed area, thickness, flow direction and pressure difference so the requirement describes the installed duty.

Material and colour. Use the grade and construction specified for the selected plate. Colour alone is not an electrical or antistatic performance specification.

Alumina purity. The preceding tables state the catalog purity for each disc or sheet configuration. Agree any required composition test or batch documentation with the order.

When the application sets the specification

For vacuum holding, agree the workpiece coverage and acceptable leakage. For gas distribution, agree total flow and face distribution. For liquid filtration, agree retention and stable flux using representative feed.

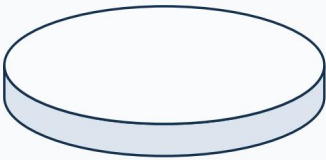
[Send the application details with your drawing](#)

CUSTOMIZATION

Custom shapes and dimensions

We review circular, square and rectangular microporous alumina plates to your drawing. Define the overall geometry, exposed porous area and working-face requirements together.

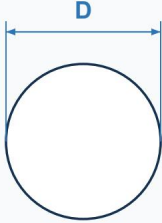
3D RECOGNITION



Circular disc

Technical illustration • Not to scale

GOVERNING DIMENSIONS



Top view



Side view

D = diameter T = thickness

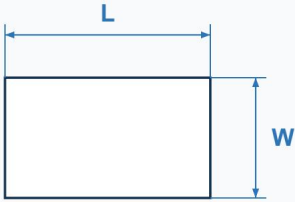
3D RECOGNITION



Square or rectangular plate

Technical illustration • Not to scale

GOVERNING DIMENSIONS



Top view



Side view

L = length W = width T = thickness

Shape	Dimensions to provide	Drawing details
Circular disc	Diameter D and thickness T	Dimensional tolerances and datums
Square plate	Equal length L and width W; thickness T	Dimensional tolerances and datums
Rectangular plate	Length L, width W and thickness T	Dimensional tolerances and datums

Working area and support. Mark the exposed porous area, seal path, mating surfaces and unsupported span on the assembly drawing.

Working-face finish. Specify flatness, parallelism and roughness separately, including the measurement area and support condition.

Pore and material requirements. Send the intended medium, pore requirement and flow target. Selection follows the requested geometry and operating conditions.

CUSTOMIZATION PROCESS

From drawing to repeat supply

Agree the geometry and acceptance criteria before evaluating a sample. Use the same drawing revision and test conditions when moving to repeat orders.

01 Send the drawing and operating conditions

Provide a dimensioned drawing, the plate function, pore requirement and sample quantity. For a replacement, include photographs of both faces and the edge.

02 Review the proposed specification

Define material and pore requirements, dimensions, tolerances, working-face criteria and supply scope. Confirm sample needs, inspection records and commercial details in the quotation.

03 Evaluate the sample in the intended fixture

Check the plate under the agreed medium, pressure, temperature, sealing and support conditions. Match the acceptance test to the application below.

04 Confirm the repeat-order reference

Keep the accepted drawing revision, selected configuration and agreed inspection criteria with the order. Identify any change in medium, cleaning process or mounting arrangement.

Application	Sample evaluation focus
Vacuum workholding	Holding and release, leakage, surface effects and workpiece deformation.
Gas distribution	Flow, pressure drop and face distribution; powder behaviour where relevant.
Liquid filtration	Retention, stable flux, bypass leakage and integrity before and after the agreed cleaning cycle.

Microporous alumina plate packaging

Plates are wrapped in PE film and placed in shock-absorbing foam trays. The film protects the porous faces from dust and direct contact; the foam cushions the plates during transport.

Keep the wrapping in place until installation. Inspect the plate and packaging on receipt, and handle the working face with clean gloves. Agree any special cleanliness or packing requirement before ordering.

REQUEST A QUOTATION

Send your plate requirements

Email your drawing or catalog reference to info@adcerax.com. Include the application and quantity so we can review the plate specification and prepare a quotation.

For a listed catalog configuration

Circular disc. Provide the AT-FT-50xx item number and quantity. Add any tolerance or inspection requirement that is critical to your equipment.

Square or rectangular sheet. Provide the AT-FT-60xx item number, length × width × thickness, pore size, purity and quantity.

Black plate. Provide AT-AO-WK001, the size reference, required outline and thickness, pore requirement and quantity.

For a custom plate

Attach the latest drawing with units, dimensions, tolerances and revision. Mark the working area, seal path, support positions and any mounting features. Include workpiece or assembly details where they affect the plate.

Information to include with either route

RFQ field	Information needed
Application	Vacuum workholding, gas distribution, fluidisation or liquid filtration.
Operating conditions	Medium, temperature, maximum differential pressure or vacuum, required flow and any reverse-flow cycle.
Functional target	Holding result, gas distribution target or filtration retention and flux.
Acceptance	Critical dimensions, face requirements, test conditions and inspection records.
Order details	Sample or production quantity, requested delivery date and destination.

If the pore grade is not yet specified, send the intended function and operating conditions so the requirement can be reviewed.

ADCERAX | HUNAN ATCERA CO.,LTD

info@adcerax.com

[Microporous alumina plate product page](#)

adcerax.com/contact/

Listed configurations are catalog references. Final material, dimensions, tolerances, acceptance criteria, quantity and delivery are defined in the quotation and agreed drawing.