



**NISHIMURA**  
ADVANCED CERAMICS

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## Nishimura Porous Alumina Ceramics Properties sheet

< Properties >

Nishimura No.	R-200	N-99EP	N-99P	N-99PM	N-99PT	N-480	Notes
Main Composition( $Al_2O_3$ )	91%	99%	99%	99%	99%	97%	
Bulk specific gravity	1.5	2.5	2.6	3.4	2.4	1.8	JIS R1634
Water absorption(%)	35.0	14.0	13.5	5.0	13.5	28.0	
Apparent porosity(%)	55.0	35.0	35.0	8.1	32.1	52.0	
Pore size( $\mu m$ )※	1.4	0.1	0.1	1.3	10.0	2.0	JIS R1655
Bending Strength(MPa)		200	60				JIS R1601
Max.Heat resistant temperature( $^{\circ}C$ )	1100			1400			

\*Median pore diameter This data is a central value, it is not the guaranteed value

< Shape >

a ball, a pole, a square bar, a pipe, circle board, square board, and more.

< Usefulness >

For liquid absorption	It can absorb liquid
Liquid separation	It can separate water and oil from the mixed liquid of water and oil if the water repellent treating is taken. At that time, the ceramic material absorb only oil, and water is stopped on the surface.
Deodorization, Bactericide	It can keep aromatic liquid or deodorant liquid.
Filter	Porous ceramic is used for liquid or gas's filter
catalyst	Filled platinum or some metal for a catalyst.

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