



Agate Products

Precision. Purity. Performance.



The Agate products are flawless, having no impurity, with strong grinding ability. High-quality glossiness, corrosion resistance, in the acid abrasive substance.



Agate products are mainly used for the grinding samples for analyzing in laboratory apparatus, and for grinding the solid matter into powder to trace solid mixing.

Ants Innovations Pvt. Ltd.

An ISO 9001-2008 Certified Company.

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Agate Products



AGATE MORTAR & PESTLE



Product feature:

1. The products are flawless, having zero impurity and strong grinding ability.
2. High-quality glossiness, corrosion resistant in acid abrasive substance.



Use:

This product is mainly used for the grinding samples for analyzing in laboratory apparatus, and grinding solid matter into powder to trace solid mixing.



Attention:

1. Can only crush and does not support pounding and breaking into pieces.
2. Cannot grind explosive substance.
3. Holds material for 1/3 of the volume at most.
4. Avoid striking in processing.
5. It is unsuitable to put and receive high temperature inside a dry oven or on an electric stove.



Product specification:

1. 40mm to 350mm.
2. Customization is available depending on the specific size as per customer's requirements.

DEEP TYPE



ORDINARY TYPE



Agate Products



AGATE BALL



Product Features

1. High density and strength provide high crushing efficiency and significantly shorten processing times.
2. Excellent sphericity features a smooth surface and a narrow diameter distribution, making it ideal for the precision crushing and dispersion of high-accuracy products.
3. High-purity raw materials deliver exceptional wear resistance and strictly minimize impurity contamination.
4. Superior wear-resistance ensures a long lifespan, reducing production costs by eliminating the need to frequently add replacement agate grinding balls.
5. Wet-type crushing and dispersing effectively handles high-viscosity and high-density materials.
6. Agitation-based ball mill compatibility eliminates any concerns regarding ball corrosion or rust during the crushing process.



Applications

1. Electronic and magnetic materials, including the crushing and dispersion of piezoelectric ceramics and insulating materials.
2. Pigments, inks, and coatings for efficient milling and particle dispersion.
3. Pharmaceuticals and food processing for hygienic crushing and dispersion.
4. Advanced precision ceramics requiring fine milling and scattering.
5. Other industries, including chemical processing, electronics, and pottery. These serve as the ideal grinding media for various types of milling machinery.



Specifications

Agate balls are available in two main specifications: Agate Industrial Balls and Agate Grinding Balls.

1. Industrial Ball Diameters: 8–10mm, 10–15mm, 15–20mm, 20–25mm, 25–30mm, and 30–60mm.
2. Customization: Cylinders and other custom dimensions can be manufactured and processed to order according to client requirements.



Grinding ball specification

Diameter (mm)	Diameter (mm)
1mm	8mm
2mm	10mm
3mm	12mm
4mm	14mm
5mm	18mm
6mm	20mm

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Agate Products



Agate Jars



Product Features

- 1 Flawless and High-Purity Quality:** The jars feature high-quality glossiness with zero impurities. They possess exceptional impact resistance, remaining completely smooth, flawless, and free from surface degradation even after extensive high-speed shaking and abrasion testing.
- 2 Premium Imported Material:** Manufactured using premium raw agate stones imported from Brazil and Uruguay. The material offers distinct color clarity and a hardness rating that is 0.5 to 1 point higher on the Mohs scale than domestic alternatives.
- 3 Robust Environmental Resistance:** The products offer high-temperature resistance and superior chemical durability, allowing them to withstand strong acids and alkalis during wet grinding processes.



Agate Jar Specifications:

SIZE	OD (mm)	ID (mm)	JAR OUTER (mm)	JAR INNER (mm)	LID (mm)
25ml	48	31	40	30	8
50 ml	64	45	49	37	8
100 ml	73	53	62	52	8
150 ml	90	62	70	55	10
250 ml	93	73	80	70	10
250 ml	100	75	82	70	12
300ml	102	79	81	71	14
400 ml	105	82	93	80	10
500 ml	105	86	100	90	8
500 ml	116	90	96	84	10
1000 ml	133	107	126	114	15
2000ml	156	130	170	150	20
3000ml	165	140	-	200	20
5000ml	205	175	-	228	18



Applications

These jars serve as a core component for laboratory ball mills. They are widely utilized by numerous domestic and international manufacturers. Please consult our customer service team for specific compatibility details. Custom sizes and shapes can also be processed and manufactured to order based on your exact requirements.

