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TENCAN

Product Brochure



PLANETARY BALL MILL JAR

PTFE planetary mill jar

PTFE (Teflon) planetary ball mill jar with superior chemical resistance, non-stick properties, and durability. Ideal for grinding corrosive or contamination-sensitive samples.

<https://www.labballmill.com/products/grinding-series/planetary-ball-mill-jar/ptfe-planetary-mill-jar.html>

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Product Overview

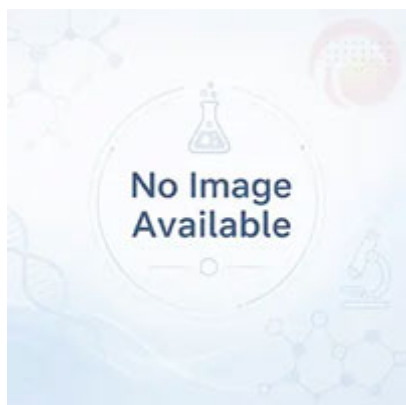
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Product Introduction

Polytetrafluoroethylene (Teflon or PTFE), commonly known as the "King of Plastics", is a polymer compound polymerized from tetrafluoroethylene. It has excellent chemical stability, corrosion resistance, sealing, high lubrication and non-stickiness, electrical insulation and good anti-aging endurance. Our company's polytetrafluoroethylene grinding jar is professionally designed, selected from polytetrafluoroethylene materials, and processed as a whole.





Technical parameters

Model specifications	Outer diameter (mm)	Inner diameter (mm)	Height(mm)
25ML	63	31	65
50ML	63	43	59
100ML	68	48	76
250ML	88	68	98
500ML	108	88	115
1L	133	109	142
1.5L	133	109	178
2L	158	134	172
2.5L	158	134	202
3L	158	138	210
4L	178	158	226
5L	218	190	217
10L	246	218	307
15L	273	243	372
20L	320	285	359
25L	320	285	424

Product Features

1. High temperature resistance: the operating temperature reaches 250°C.
2. Low temperature resistance: good mechanical toughness ; Even if the temperature drops to -196°C, the elongation of 5% can be maintained.
3. Corrosion resistance: It is inert to most chemicals and solvents, and can withstand strong acids and alkalis, water and various organic solvents.
4. Weather resistance: has the best aging life among plastics.
5. High lubrication: It is the one with the lower friction coefficient among solid materials.
6. Non-adhesive: It has the smallest surface tension among solid materials and does not adhere to any substance.
7. Non-toxic: It is physiologically inert and has no adverse reactions when used as artificial blood vessels and organs for long-term implantation in the body.

Accessories & Customization

Accessories

Grinding jars, heating elements, sample holders, control modules and other matching accessories can be selected according to the product configuration.

Customization

For voltage, capacity, chamber size, process temperature or application requirements, please contact TENCAN for a suitable configuration.