

Professional
Powder Equipment
Manufacturer



Powder
Equipment



Milling
Technology



Powder
Materials

TENCAN

Product Brochure



PLANETARY BALL MILL JAR

PTFE planetary mill jar

PTFE planetary mill jar offers superior chemical resistance and non-stick properties for grinding corrosive materials. Ideal for lab use in chemistry, pharmaceuticals, and materials research.

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

TENCAN



Product Overview

PTFE planetary mill jar offers superior chemical resistance and non-stick properties for grinding corrosive materials. Ideal for lab use in chemistry, pharmaceuticals, and materials research.





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.