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PRODUCT CATALOG / Grinding Media

Polyurethane coated iron core grinding ball

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TENCAN / PRODUCT INFORMATION

Polyurethane coated iron core grinding ball

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Iron-core grinding balls with a polyurethane working coating for compatible mixing, preliminary dispersion and processes that require evaluation of a cushioning surface.

Overview

Iron-core grinding balls with a polyurethane working coating for compatible mixing, preliminary dispersion and processes that require evaluation of a cushioning surface.

How it works

The grinding media forms part of the contact system between sample, media and mill. Material selection should balance the required mechanical action with chemical compatibility and the acceptable contribution from wear.

A damaged coating can expose the iron core. Polymer wear, solvent compatibility and coating condition need to be checked.

Key features

- The core and coating perform different roles and should be specified separately.
- The published diameter range is 15–30 mm.
- The product information does not supply one fixed density for every coated configuration.

Specifications

Published catalog references are reproduced below. Nominal volume is not a sample-mass rating. Confirm the selected model, material grade, electrical supply and complete supplied configuration in the quotation.

Published media material references

Property	Reference
Material	polyurethane coating over an iron core
Composition / grade	Iron core with an outer polyurethane layer
Diameter range	15–30 mm
Density	Configuration-dependent; confirm the actual grade
Hardness	Shore A approximately 80–95 (coating reference)
Supplied size distribution	Specify the required diameters and quantities
Grade / batch documentation	Confirm with the quotation; material references are not a batch certificate

Material properties are published references, not a certificate for a supplied batch or a complete assembly temperature/pressure rating.

Applications

Compatible mixing, pigment predispersion and slurry homogenization studies.

Suitability depends on the actual sample, process and analytical requirements; a listed application is not a guaranteed final-particle-size result.

Accessories and options

Specify the media grade, diameter mix, total charge and required documentation against the actual jar and sample. Confirm custom requirements in the quotation.

State the required grade, quantities, drawings and destination when requesting a quotation. Confirm what is included, the document requirements, packing and commercial terms; no generic delivery time or universal custom capability is assumed.

Compare milling jars · Compare grinding media · Low temperature planetary grinding machines · Ultrasonic planetary ball mills

Selection guidance

Match polyurethane coating over an iron core to the sample chemistry and the elements or residues that matter to the analysis. Then confirm the dimensions, complete loaded mass and operating arrangement against the selected mill.

Work through the selection guide · Request a configuration quotation

Trials and comparisons

No identifiable trial of this exact product/configuration was found in the available planetary-milling test summaries. A result from a different mill, jar grade or assistance system is not attributed to this product.

A comparison to request

For a polyurethane coating over an iron core comparison, use matched sample portions and the same measurement/dispersion method. State the jar, media, mass/volume loading basis, processing schedule and contamination measurements. A change in material grade alone is not established as the cause of a result.

Discuss a sample evaluation

Plan your milling configuration.

TENCAN develops and manufactures planetary milling equipment, with application support in Changsha and a production base in Wushi, Hunan.
Share your material, batch size, target particle size and contamination limits. Our team can help confirm the mill, jars, media and electrical requirements, or arrange a sample grinding evaluation.
Reference information applies to the described models and conditions. Confirm the final specification and supplied accessories with TENCAN before ordering.

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Product page https://www.planetaryballmill.com/milling-accessories/media/polyurethane-coated-iron-core-grinding-ball.html
Sample grinding www.planetaryballmill.com/sample-testing/