

Super Fine Alumina Grinding Media

Application:

TAB Alumina grinding beads is widely used in ultra-fine grinding and dispersion of metalic and non-metalic minerals, coatings, inks, paints, dyes, titanium dioxide, pesticides, magnetic materials and other industries.

■ Specifications:

Performance Product	TAB 95
Al ₂ O ₃ (%)	≥95
SiO ₂ (%)	<3
Moh's hardness	9
Vickers hardness	>1300
Compressive strength	>1100N (Ø2mm)
Rate of Water Absorption (%)	<0.01
Density (g/cm3)	≥3.7
Bulk Density (T/m3)	2.1-2.3
Rapid Wear Resistance	<1.3g/kg [·] h

Applicable Equipment:

Stirred mill, Polishing machine, Sand mill, Vertical mill and Ball grinding mill, ...etc.

Packaging:

25kg net in PP-bag or big bag of 500 or 1000kg net. 20-24MT/20'FCL.

■Key benefits:

- · High grinding efficiency for superfine grinding.
- Fine chemical stability & contamination-free to the grinded material.
- · Extremely low wear rate .
- Excellent combination of toughness and hardness .
- · Technical support provided to optimize milling











Tecera™ International Co.,Ltd.

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■ Specifications:

Performance Product	TAB 50	TAB 60	TAB 75
Al ₂ O ₃ (%)	>50	≥60	>75
Moh's hardness	7	7	8
Vickers hardness	>950	>1000	>1000
Compressive strength	>750(Ø2mm)	>800N (Ø2mm)	>900N (Ø2mm)
Rate of Water Absorption (%)	<0.01	<0.01	<0.01
Density (g/cm3)	≥2.7	≥2.8	≥3.2
Bulk Density (T/m3)	1.7-1.9	1.7-1.9	1.8-2.0
Rapid Wear Resistance	<2.5g/kg h	<2.5g/kg [•] h	<2.5g/kg h

Applicable Equipment:

Stirred mill, Polishing machine, Sand mill, Vertical mill and Ball grinding mill, ...etc.

■ Packaging:

25kg net in PP-bag or big bag of 500 or 1000kg net. 20-24MT/20'FCL.

■Key benefits:

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Zirconia Toughened Alumina Grinding Media (ZTA Grinding Beads)

Application:

ZTA series grinding beads is widely used in ultra-fine grinding and dispersion of non-metalic minerals, coatings, inks, paints, dyes, titanium dioxide, pesticides, magnetic materials and other industries.

Specifications:

•	
Performance Product	ZTA 420
Al ₂ O ₃ (%)	≥70
ZrO ₂ (%)	≥20
Moh's hardness	9
Vickers hardness	>1100
Compressive strength	>1000N (Ø2mm)
Rate of Water Absorption (%)	<0.01
Density (g/cm3)	4.1-4.2
Bulk Density (T/m3)	2.3-2.5
Rapid Wear Resistance	<1.0g/kg [·] h

■ Applicable Equipment:

Stirred mill, Polishing machine, Sand mill, Vertical mill and Ball grinding mill, ...etc.

Packaging:

25kg net in PP-bag or big bag of 500 or 1000kg net. 20-24MT/20'FCL.

■Key benefits:

- High grinding efficiency for superfine grinding.
- Fine chemical stability & contamination-free to the grinded material.
- Extremely low wear rate .
- · Excellent combination of toughness and hardness .
- · Technical support provided to optimize milling





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Zirconium Silicate Grinding Media

Application:

Zirconiu, Silicate Grinding Media is widely used in ultrafine grinding of various minerals, typically in zircon sand, paint, titanium dioxide and other industry.

■ Specification

Specification	TZS 320 [®]	TZS360 [®]	<i>TZ</i> S400 [®]	<i>TZ</i> S420 [®]
Chemical composition	ZrO ₂ Al ₂ O ₃ SiO ₂ Other	ZrO ₂ Al ₂ O ₃ SiO ₂ Other	ZrO ₂ Al ₂ O ₃ SiO ₂ Other	ZrO ₂ Al ₂ O ₃ SiO ₂ Othe
Density	>3.25	3.60~3.70	>4.0	4.20min
Packing Density	>1.85	2.20~2.35	>2.35	2.85min
Hardness (Mohs)	8	8	> 8	8min
Roundness	>90%	>90%	>90%	>90%
Size	0.2 ~ 12mm,	0.2 ~ 12mm,	0.4 ~ 13mm,.	0.2 ~ 12mm,
Color	White	White	off-white	White

■ Applicable Equipment:

Stirred mill, Polishing machine, Sand mill, Vertical mill and Ball grinding mill, ...etc.

■Key benefits:

- · High grinding efficiency for superfine grinding.
- Fine chemical stability & contamination-free to the grinded material.
- Extremely low wear rate .
- Excellent combination of toughness and hardness .
- · Technical support provided to optimize milling







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TZ® Series-Zirconia grinding beads and ball

Application

The TZ®series Zirconia ceramic grinding beads/ball is used as high class grinding media. Thanks to the extremely low wear loss, the zirconia based ceramic beads/ball is contamination free grinding media. Its widely used in various industries like medicine, food, cosmetics, paints, textiles, Structural Ceramics, Electronics Ceramics, Magnetic material, Metallurgy, printing and dyeing, pigment etc.

■Performance Index

Item	Performance Index	
Main Composition	95% ZrO ₂ ,5% Y ₂ O ₃	
Density	> 6.0	
Hardness (HRA)	> 87	
Thermal Expansion Coefficient(10 ⁻⁶ /k)	9.6(20-400)	
Elastic Modulus(GPa)	200-250	
Fracture Toughness(Mpa1/2)	10	
Bending Strength(Mpa)	>1150	
Grain Size(um)	<0.6	
Thermal Conductivity(W/m.K)	2.5	
Acid-alkali Resistance Performance (Ordinary	Excellent	
Temperature)		

■ Regular Size:

Grinding Beads:

Ø0.1-0.2 Ø0.2-0.4 Ø0.4-0.6 Ø0.6-0.8 0.9-1.1 Ø1, Ø2, Ø3, Ø5, Ø7, Ø10, Ø12, Ø15, Ø20

Grinding Ball: Ball: ø30 ø40 ø50 ø55

Grinding Cylinder(mm): ϕ 3×3, ϕ 5×5, ϕ 7×7, ϕ 10×10, ϕ 12×12

■ Key Benefit:

- 1. Contamination free grinding media due to the extremely low wear loss
- 2. High grinding efficiency due to density up to 6.
- 3. Excellent impact strength due to the superior toughness.







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