

CARBOGRIND ZIRMAX

Ultra high-performance, intermediate-density ceramic grinding media

Sizes: 2.0-6.0mm | Apparent density: 3.6-3.7 g/cm³

Features

- Superior strength and hardness
- Uniform size and shape
- Lower density than alternatives such as steel or iron balls
- Exceptionally low internal porosity
- Chemically inert, environmentally friendly
- Light color with high brightness

Benefits

- High grind efficiency
- Longer product life cycle
- Decreases product contamination
- Reduces equipment wear and maintenance costs
- Requires less energy than steel or iron balls



CARBOGRIND® ZIRMAX ultra high-performance, intermediate-density ceramic grinding media is engineered to provide unmatched economic and performance advantages in ultra-fine grinding of hard minerals. The manufacturing process results in superior strength and wear resistance with a consistent particle size and shape.

Applications and markets

- Vertical and horizontal mills
- Mining
- Industrial minerals
- Paints and pigments

Chemical and physical properties

Typical size

Product	Diameter (mm)	Diameter (in)
360-020	2.0 - 3.0	.079 - .118
360-030	3.0 - 4.0	.118 - .158
360-040	4.0 - 5.0	.158 - .197
360-050	5.0 - 6.0	.197 - .236
370-020	2.0 - 3.0	.079 - .118
370-030	3.0 - 4.0	.118 - .158
370-040	4.0 - 5.0	.158 - .197
370-050	5.0 - 6.0	.197 - .236

Other sizes and densities available on request.

Typical additional properties

	360	370
Apparent density (g/cm ³)	≥ 3.65	≥ 3.75
Vickers hardness* (0.5 kg)	1200	1200
Mohs hardness	(9+)	(9+)
Thermal expansion coefficient (20-1000°C)	7-8	7-8
Sphericity	>0.95	>0.95
Color	White	White

Chemical composition

Al ₂ O ₃	ZrO ₂	Other
≥80	≥2	≥7

*Standard deviation as % of median
Data is subject to change due to continuous improvement of the product.

Talk to CARBO to find out how we can improve your end-product quality and reduce operating costs.

Learn more at +1 800 551 3247 | carboindustrial.com

