

VERSION 2024



ZIBO QIMINGXING NEW MATERIAL INCORPORATED CO.,LTD.  
SHANDONG ULTRAMING FINE CERAMICS CO.,LTD.

# ZIBO QIMINGXING

NEW MATERIAL INCORPORATED CO.,LTD.

Professional Manufacturer  
Of High-performance  
Wear-resistant Ceramic Product Range



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Stock code: 870601





1997  
SINCE

Professional Manufacturer  
of High-performance ceramic  
and Wear Resistant Products



## ABOUT QMX

ZIBO QIMINGXING NEW MATERIAL INCORPORATED CO.,LTD. was founded in 1997. The company is a High-tech enterprise engaged in the research, development, manufacture, sales and service of wear ceramics and Ultra-Fine powder grinding machines. The company consists of 2 wholly-owned subsidiaries, SHANDONG ULTRAMING FINE CERAMICS CO.,LTD. / SHANDONG ELISION NEW MATERIAL TECHNOLOGY CO.,LTD.

Shandong Ultraming Fine Ceramics Co.,Ltd. is a ISO certified manufacturer. Specializes in the production of Ceramic Grinding media and Ceramic Lining Tiles. The annual production ability is 20,000tons. The products have been designed primarily for the lining of high wear components in mining & mineral processing equipment including: pipes and tanks, Chutes, Hoppers, Launderers, Mill feed components etc.

Shandong Elision New Material Technology Co., Ltd., founded in 2008 The company focuses on manufacturing the high temperature calcined alumina powder. The annual production ability is 60,000 tons. The products are mainly used in high-voltage electric porcelain, electronic ceramics, grinding ceramics, refractory materials, abrasive materials and other industries.

Company founder Zhang Hejun, has brought together a highly energetic team whose focus is delivering the quality, value and service that Qimingxing customers enjoy. We hope to build on our achievements and with the backing of our talented and dedicated staff, our aim is to give our customers the best wear solutions support throughout the world.

## QIMINGXING INFO BOARD CORPORATION

We have Been Providing The Ceramic Wear Solutions Products As Below.

- >>> CERAMIC GRINDING MEDIA
- >>> ALUMINA CERAMIC TILES
- >>> CERAMIC WEAR PANEL
- >>> CERAMIC LINED PIPE&EQUIPMENT
- >>> CERAMIC LINED CYCLONE
- >>> CERAMIC WEARING COMPOUND
- >>> POLYURETHANE ELASTOMER
- >>> ULTRAFINE GRINDING MILLS

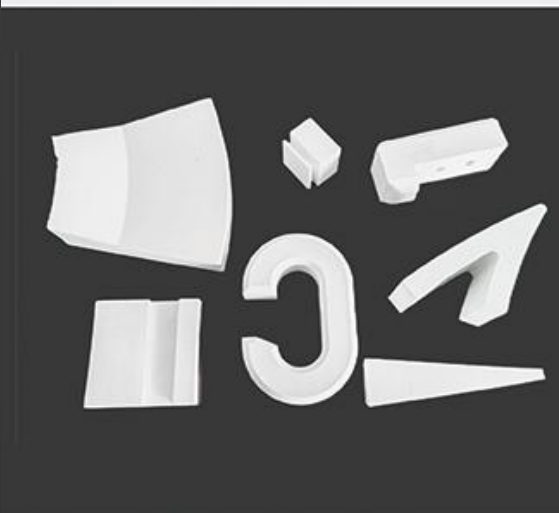




## ALUMINA CERAMIC WEAR TILES



## Alumina ceramic Wear tiles



### ALUMINA WEAR TILE

Main Technical Parameter

No.	Item 92%/95%/99%	Unit	Index		
1	Density	gr/cm <sup>3</sup>	≥3.6	≥3.7	≥3.9
2	Alumina Content	%	≥92	≥95	≥99
3	HV20 Hardness	MPa	≥950	≥1100	≥1200
4	Bending Strength	MPa	220	300	330
5	Compressive Strength	MPa	≥1050	≥1500	≥1800
6	Fracture Toughness KIC	MPa·m <sup>1/2</sup>	≥3.7	≥3.9	≥4.2
7	HRA	/	≥82	≥85	≥89
8	Wear Volume	cm <sup>3</sup>	≤0.25	≤0.15	≤0.10

**[Properties and Features]** high hardness, super abrasion-resistance, excellent impact resistance, corrosion resistance, regular and smooth shape, high stability, easy to handle. It can be applied in all kinds of industrial wear areas.

**[Application]** Ceramic wear resistant linings are widely used in hoppers, rubber belts, pipes, elbows, valves, fan blades, chutes, ball mills, feeders, bunkers and other processing equipments of the steel, thermal power, cement, coal, mine, port, chemical industry and so on.



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## CERAMIC GRINDING BALL



- HIGH DENSITY
- HIGH HARDNESS
- LOW WEAR RATE
- GOOD CORROSION RESISTANCE



## CERAMIC GRINDING BALL

### Alumina Grinding Media

No.	Item	Unit	60%AL	75%AL	92%AL	99%AL
1	Specific Density	gr/cm <sup>3</sup>	≥2.8	≥3.2	≥3.6	≥3.8
2	Crush Strength (Φ3mm)	N	≥600	≥800	≥1050	≥1200
3	Alumina Content	%	≥60	≥75	≥92	≥99
4	HV Hardness	GPa	≥7	≥7.5	≥11	≥14
5	Size Available	mm	0.5-30	0.5-30	0.5-70	1-30

### ZTA(Zirconia Toughened Alumina) Grinding Media

No.	Item	Unit	Index			
1	Specific Density	gr/cm <sup>3</sup>	≥3.7	≥3.8	≥4.5	≥4.7
2	Crush Strength (Φ3mm)	N	≥1100	≥1300	≥1600	≥1700
3	Chemical Composition	/	Al <sub>2</sub> O <sub>3</sub> +ZrO <sub>2</sub>			
4	HV Hardness	GPa	≥12	≥11	≥12	≥12
5	Size Available	mm	1-25	1-20	1-30	1-13

### Zirconium Silicate Grinding Media

No.	Item	Unit	Index	
1	Specific Density	gr/cm <sup>3</sup>	≥4.1	≥4.2
2	Crush Strength (Φ3mm)	N	≥1050	
3	ZrO <sub>2</sub> Content	%	≥45	≥50
4	HV Hardness	GPa	≥11.5	≥10.5
5	Size Available	mm	1-15	1-15

### Yttrium Stabilized & Cerium Stabilized Zirconia Grinding Media

No.	Item	Unit	95%ZrO <sub>2</sub>	80%ZrO <sub>2</sub>
1	Specific Density	gr/cm <sup>3</sup>	≥6.1	≥6.0
2	Crush Strength (Φ3mm)	N	≥2500	≥2000
3	ZrO <sub>2</sub> Content	%	≥95	≥80
4	HV Hardness	GPa	≥11	≥10
5	Size Available	mm	0.1-50	0.4-10



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## CERAMIC MATERIALS

92 %, 95%, 99% -Al<sub>2</sub>O<sub>3</sub>

ZTA, Silicon Carbide ceramic tiles (Cylinder, square, rectangular or hexagonal "SW") vulcanized in special rubber with **CN bonding layer**.



## TYPICAL APPLICATION EXAMPLES:

- ▶ Chutes
- ▶ Conveyor transfer points
- ▶ Cyclones
- ▶ Screen beams, underpans and components
- ▶ Launderers
- ▶ Vibratory feeders
- ▶ Pipes and tanks

## WEAR PANEL PROTECTION TO KEEP YOUR EQUIPMENT OPERATING BETTER, LONGER

The day-to-day stresses of mining and cement manufacturing can chew up your machinery fast. Extend production cycles and bring down costs with our range of durable, wear-life optimizing wear panels.

SILICON  
CARBIDE TILE



S.No.	Material	Attributes	Properties
1	Ceramic Tiles	Material	Alumina, ZTA, PU, Silicon Carbide
		Component	natural rubber, nitrile-butadiene rubber, Flame Retardant, others
		Density	1.4g/cm <sup>3</sup>
		Tensile strength at break	≥10.6Mpa
		Elongation at break	≥350%
2	Rubber	Shore Hardness	60±5
		Adhesive between tile and rubber	≥3.8Mpa
		Adhesive between rubber and equipment	≥3.5 Mpa
		Thermal conductivity (normal temperature)	2w/m k
		Working temperature	-50°C - 200°C
3	Steel plate	Material	Q235A
		Density	7.85g/cm <sup>3</sup>
		Thickness	3-8mm
		Appearance	Brown glutinous liquid
4	Adhesive	Solid content	20±3%
		Viscosity	≥2.5 Mpa
		Peel strength	48h N/2.5cm≥120
		Compressive strength	≥850 Mpa
		Working temperature	-20°C - 350°C



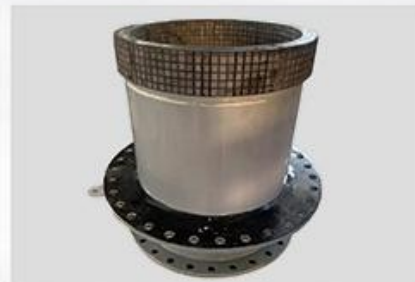
## CERAMIC LINED PIPE FITTINGS/EQUIPMENT

QMX ceramic-lined pipe and fittings are designed to outlast linings such as Alumina, polyurethane, basalt, Silicon Carbide that are commonly used to extend the life of piping systems. All pipe and fittings feature extremely wear resistant ceramics that are also exceptionally corrosion-resistant.

- Light Weight
- High Hardness
- High Temperature Tolerance
- High Thermal Conductivity
- Corrosion Resistance



## CERAMIC LINED DUCTWORK



## CERAMIC LINED, CHUTES, PIPE, ELBOWS, BENDS

QMX is Manufacturer, Supplier, Exporter of Ceramic Lined Components, Ceramic Lined Products, Ceramic Lined Bends, Ceramic Lined Pipes etc. The necessary forming of shapes is done in its green or pre sintered phase. The products are then sintered in a Kiln at extremely high temperature.

Material	Density(gr/cm <sup>3</sup> )
92% ALUMINA	3.65
95% ALUMINA	3.75
99% ALUMINA	3.85
ZTA	4.25
RB51C SILICON CARBIDE	3.02
BASALT	3.00



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## CERAMIC LINED HYDROCYCLONE



## Ceramic Lined Hydrocyclone



QMX have the materials and expertise to be able to minimize wear of the cyclone linings and thus reduce downtime and increase efficiency. The main body of the cyclone consists of a reducer or a cone shaped liner tapering from a larger diameter to a smaller one down its length.

### SOME OF THE PARTS THAT QMX TYPICALLY SUPPLY INCLUDE:

- > Cylindrical & Reducing Liners
- > Inlets
- > Outlets
- > Spigots
- > Inserts
- > Upper, Mid & Lower Cone Sections
- > Vortex finders
- > Monolithic Cyclone



### THE DIAMETER AND LINING MATERIALS

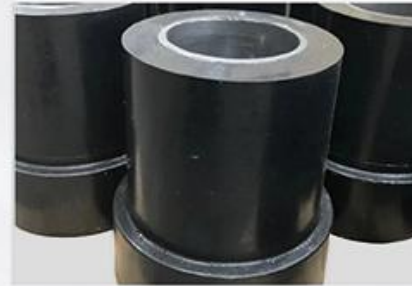
No.	Diameter $\Phi$ mm	Lining Material
1	350	Alumina
2	380	Silicon Carbide
3	466	
4	660	Polyurethane
5	900	/
6	1000	/
7	1150	/
8	1300	/
9	1450	/



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- › Excellent thermal shock resistance
- › Excellent corrosion resistance
- › Excellent abrasion resistance
- › Good thermal conductivity
- › Relatively low coefficient of thermal expansion



#### REACTION BONDED SILICON CARBIDE

No.	Item	Unit	Index
1	Density	gr/cm <sup>3</sup>	≥3.02
2	Max Temperature Application	°C	≥1380
3	Open Porosity	%	≤0.1
4	Thermal Conductivity	W/m.k	45 @1200°C
5	Bending Strength	MPa	250 @20°C 280 @ 1280°C
6	Modulus Of Elasticity	GPa	330 (20°C) 300(1200°C)
7	Coefficient of Thermal Expansion	K <sup>-1</sup> ×10 <sup>-6</sup>	4.5
8	Compressive Strength	MPa	2500
9	HV Hardness	GPa	20-22
10	Acid Alkaline Proof	/	Excellent





## Ceramic Wearing Compound



## Ceramic Wearing Compound

### WEARING COMPOUND CERAMIC BEAD FILLED EPOXY

Epoxy wearing compound is product available with specialized qualities. It is essentially a ceramic bead filled adhesive to apply to areas where tiling is not possible or effective. The compound has wear resistant qualities, is easy to apply and is used vastly in maintenance of lined areas.

#### Surface Preparation:

Proper surface preparation is critical to the long term performance of this product. The exact requirements vary with the severity of the application, expected service life, and initial substrate conditions.

Ceramic Bead size: 0.5~1mm, 1~1.5mm, 2mm

Bead Material: 92% Alumina or ZTA

Item	Index
Color	Grey(white grain)
Density	2.0g/cm <sup>3</sup>
Weight Ratio	A:B=1:1, A:B=2:1, A:B=3:1
Operating Time (25°C)	30~40min
Initial curing time (25°C)	40Mins~6Hrs
Full cure time (25°C)	4Hr~24Hr
Hardness after curing(GB/T2411-1980)	86 Shore D
Compressive Strength(GB/T1040-1992)	962Kg/cm <sup>2</sup>
Tensile Strength (GB/T6329-1996)	365Kg/cm <sup>2</sup>
Shear strength (GB/T7124-1986)	108Kg/cm <sup>2</sup>
Working Temperature	-60~120°C



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## POLYURETHANE ELASTOMER WEAR PRODUCTS



## Polyurethane Elastomer Wear Products

Wear-resistant polyurethane is our main products before the year 1997. We developed the synthetic polyurethane made by imported materials, its wear resistant property, heat resistant property and service life increased by 20-50%. Because of its characteristics of the wear resistance, oil resistance, hydrolysis resistance and high elasticity. It becomes the ideal material of no pollution, wear resistant lining in electronics, ceramics, new materials fields.

### PHYSICAL PROPERTY

Density	1.3kg/L	Tearing strength	40-100KN/m
Hardness	35-95(Shore A)	Divulsion strength	30-50Mpa
Akron abrasion	<0.053 (cm <sup>3</sup> /1.61km)	Deformation	<8%
Working temperature	-25-80°C	Insulation property	Excellent
Tensile Strength	70KN/m	Oil-proofness	Excellent

### PRODUCTION EQUIPMENT



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