



## Rubber Ceramic Liner



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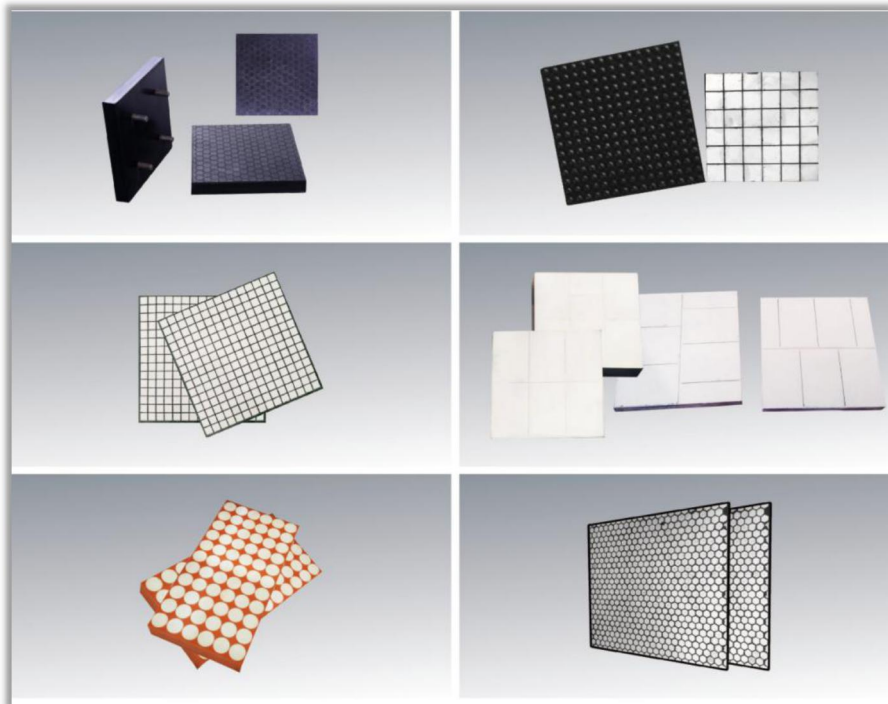
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# Rubber Ceramic Liner



## Two-in-one/Three-in-one wear-resistant ceramic-rubber composite plate

Ceramic rubber composite pads&plate is use of rubber vulcanization process, to embed the wear-resistant ceramic vulcanized into rubber, stick it on the inner all of equipment with the adhesive paste. As customers' requirement, it also can be vulcanized together with steel plate, with bolts or not.



| Item / Index                                    | Rubber  |
|-------------------------------------------------|---------|
| Bulk density (g/cm3)                            | 1.4     |
| Tensile strength at break (MPa)                 | ≥14     |
| Elongation at break (%)                         | ≥250    |
| Shore hardness (HA)                             | 48~65   |
| Adhesive between steel & rubber(MPa)            | ≥3.5    |
| Adhesive between rubber& ceramic(MPa)           | ≥3.5    |
| Thermal conductivity(normal temperature)(W/M·K) | 2       |
| Aging period(years)                             | ≥1.5    |
| Working temperature(℃)                          | -50~200 |

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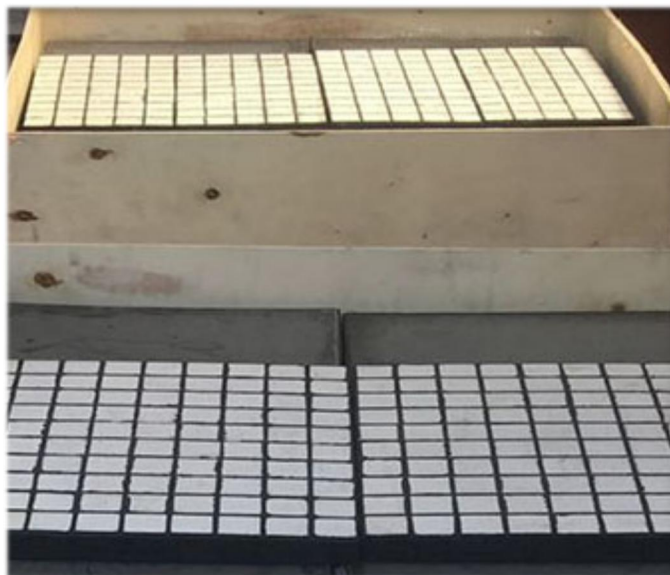
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## Alumina ceramic tile

It combines wear-resistant of ceramic and impact-resistant of rubber, apply to conveying systems equipment work under normal temperature, and can bear some impact.

Pads and plates have been designed primarily for the lining of high wear components in mining and mineral processing equipment including: pipes and tanks, deflectors, launders, spill face sloping walls & loading chutes, bins&hoppers, mill feed components.



| Series                                   | BM92  | BM95  |
|------------------------------------------|-------|-------|
| Al <sub>2</sub> O <sub>3</sub> (%)       | ≥92   | ≥95   |
| Hardness(Mohs)                           | 9     | 9     |
| Water absorption(%)                      | ≤0.02 | ≤0.02 |
| Fracture toughness(MPam <sup>1/2</sup> ) | 3.65  | 3.75  |
| Bending strength(MPa)                    | 225   | 275   |
| Bulk density(g/cm <sup>3</sup> )         | ≥3.60 | ≥3.70 |
| Compressive strength(MPa)                | ≥850  | ≥900  |
| Thermal conductivity(W/M·K)              | 16.8  | 16.8  |



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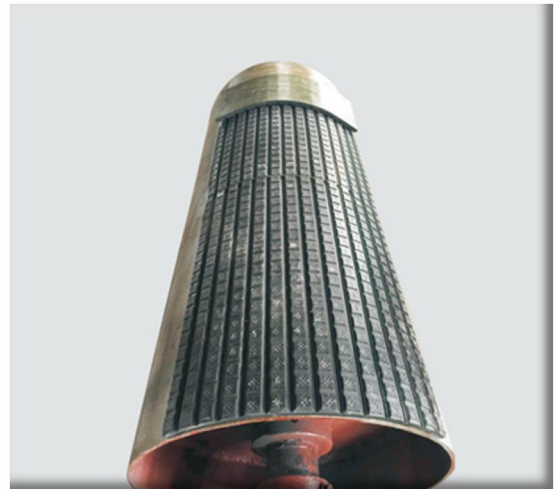


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## Ceramic pulley lagging

Ceramic pulley lagging is constructed from hundreds of individual ceramic tiles molded into a durable rubber backing. The new lagging with ceramic inserts has been designed for use in difficult wet and muddy working conditions, common in gold, copper, iron ore, coal, lime stones and steelworks, to eliminate belt slippage. The ceramic inserts made of high strength aluminium oxide, ensure extremely high wear resistance.



BOMAI ceramic roller plastic bags is to use advanced heat vulcanization process will surface with convex point of wear-resisting ceramics according to certain layout of sulfide in special rubber, then put the plate with rubber cement in roller surface to replace the traditional rubber and prevent sliding friction between roller and belt, reduce the belt creep, reduce material bonded on the surface of the roller, thus reducing the belt running deviation, and wear and tear, improve operational efficiency, the cylinder and belt synchronization operation, so as to ensure the operation of belt and efficient, large capacity.



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## ZTA

This product is used for anti-wear lining on equipment with large quantity of material and large impact force under normal temperature environment. Advanced vulcanization process is used to vulcanize ceramics in rubber or directly vulcanize ceramic rubber on steel plate with countersunk head bolt, which increases the firmness between lining plate and equipment and ensures the reliability of wear resistance and impact resistance.



### Properties of wear-resistant ceramic plates:

| Product           | Unit              | Index |
|-------------------|-------------------|-------|
| Wear volume       | cm <sup>3</sup>   | ≤0.01 |
| Bulk density      | g/cm <sup>3</sup> | ≥4.1  |
| Rockwell hardness | HRA               | ≥90   |

### Properties of rubber in lining:

| Product                        | Unit | Index |
|--------------------------------|------|-------|
| Tensile strength               | MPA  | ≥15   |
| Elongation at break            | %    | ≥250  |
| Shaw hardness                  | HA   | 55-65 |
| Tear off permanent deformation | %    | ≤24   |

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