Rubber-ABR [Impact- and Abrasion-Resistant Plate]

- An impact- and abrasion-resistant plate produced by fixing an alumina abrasion resistant material onto natural rubber
- A wide range of installation methods are available, including shaping with cutters and bonding with adhesives, welding, and fixing with bolts.
- Resistant to water, weak alkalis, and weak acids.
- Oil-resistant rubber and silicon rubber may be substituted for standard rubber material upon

- Impact resistance: Rubber absorbs shock and protects the abrasion resistant layer to achieve extended service life, even in environments resulting in heavy wear.
- Low contamination: Optimal for applications sensitive to metal contamination.
- Easily shaped: Rubber material allows cutting and curving of abrasion resistant plate to fit complex installation surfaces for which abrasion resistance is necessary.
- Easy installation: Compatible with various joining methods, including adhesive bond, welding, and welded bolt joints; facilitates replacement work.
- Noise suppression: Shock absorption properties of rubber minimize noise.

Applications

Protects raw material distributing dampers against wear.

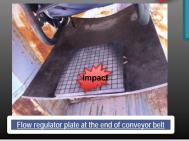
Protects raw material chute and outlet areas against wear.

 Protects raw material hopper inner linings against wear.

■ Protects bucket elevators against wear.

Protects parts subject to impact forces against wear.







[Applications involving curved tube of raw material chute]



Characteristics

Trysical properties of rubber (natural rubber)			
Property	Unit	Value	
Tensile strength (TSB)	Мра	≥ 14	
Tear strength	%	≥ 350	
Shore hardness	Degree	55 to 65	
Deformation at break	%	≤ 24	
Rubber/chip bond strength	Мра	≥ 3.0	
Service temperature	°C	≤ 100	
Service life	Year	≥ 15	
Chip distance	mm	0.8 to 1.0	
Peripheral distance	mm	1.5 to 2.0	

* Plate size, thickness, and chip shape can be selected based on your needs. Specially-manufactured 50 mm thick plates are available for especially demanding applications.

Property	Value	
Al2O3 content	0.95	
Mohs hardness	9	
Flexural strength (MPa)	275	
Volume density	3.65	

brasion resistant chi shapes/dimensions

Chip shape	Inickness
17.5 x 17.5	4 to 15 mm
40 x 40	15 to 30 mm
Hexagonal column	12 to 24 mm
20 mm circular column	4 to 25 mm

The data(in this catalog) represents typical values and should not be considered as guaranteed specifications. These typical values can be varied without any notice.

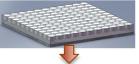
chips

Please select the optimal installation method

- ■Bolt joints: steel plate composite with embedded anchoring bolts
- ■Welding: steel plate composite

Fall

■Adhesive bonding: standard plate (can be cut to desired shape)







Abrasion resistant chips: 17.5 x 17.5 mm chips Plate dimensions: 250 x 250, 300 x 400, 500 x 500

Thickness: 12, 20, 25 mm (rubber plate only) 16, 25 mm (with steel plate)

Chip 17.5 x 17.5 mm Composite plate thickn breakdown (mm) Plate size Chip Rubber plate 250 x 250 x 500 x 500 x



* Rubber-ABR composite plates with steel plates can be custom-shaped upon request