



## CERA-WEAR HR CERAMIC WEAR PADS

Wear Resistant | Impact Resistant | Natural Rubber and Ceramic Composite | CN Bonding Layer

### FEATURES

CERA-WEAR HR Ceramic Wear Pads are the most durable, premium grade composite liner of wear resistant 92% alumina, hexagonal ceramic tiles, vulcanised within an impact resistant rubber, which has excellent resistance to both high speed wet slurry and fine particle sliding and high flow impact abrasion.

CERA-WEAR HR Ceramic Wear pads are supplied with a specially formulated Neoprene based CN Bonding Layer to achieve the ultimate adhesion when bonded to steel or other rubber surfaces. To achieve this ultimate bond strength, the TRS range of cold, vulcanising adhesives are recommended.

CERA-WEAR HR Ceramic Wear pads are supplied with the tiles completely embedded within a rubber matrix to increase the bond strength of each individual tile within the pad. The hexagonal shape combined with rubber between the tiles gives maximum impact resistance and flexibility for installation on flat, convex or concave surfaces, making them suitable for the most demanding wear protection ceramic lining applications.

The CN bonding layer and TRS adhesive system is extremely flexible and allows a good bond strength to be achieved, even in adverse conditions often encountered when application is occurring on site on operational equipment.

CERA-WEAR HR Ceramic Wear Pads can be supplied as an individual panel or as a custom made element ready for mechanical installation, supplied as per specifications and drawings or custom designed to meet application requirements.

### TECHNICAL INFORMATION (CERAMIC)

|  |                  |                |
|--|------------------|----------------|
| Aluminium Oxide Al <sub>2</sub> O <sub>3</sub> | 92% (min)        |                |
| Density  | 3.65 g/cc        | ASTM C373-88   |
| Hardness (Rockwell)                            | 77 R45N          | ASTM C1327     |
| Compressive Strength                           | 1950 Mpa (min)   | ASTM C1424-04  |
| Flexural Strength                              | 320 Mpa (min)    | ASTM C1161-02c |
| Water Absorption                               | 0%               | ASTM C373-88   |
| Abrasion by Impingement                        | 0.05 grams (max) |                |
| Abrasion by Rubbing                            | 0.1 grams (max)  |                |

### TECHNICAL INFORMATION (RUBBER)

|          |                  |            |
|----------|------------------|------------|
| Polymer  | SBR              |            |
| Colour   | Black            |            |
| Hardness | 40° ± 5° Shore A | ASTM D2240 |

Detailed Rubber specification can be supplied upon request



### APPLICATIONS

CERA-WEAR HR Ceramic Wear Pads have been designed primarily for use as a ceramic lining for the wear and corrosion protection of steel equipment surfaces. These unique tiles are mainly used for high speed wet abrasion applications such as slurry handling in the mineral processing industry but can be used for any fine particle abrasion applications. Typical equipment to be lined includes:

- > Chutes
- > Pipes and tanks
- > Loading and transfer hoods
- > Feeders
- > Screen feed boxes
- > Screen Beams and components
- > Valves and pumps
- > Cyclones
- > Launderers
- > Flotation Cells
- > Mill feed Chutes
- > Sumps and underpans



CN bonding layer



TRS adhesives recommended

# CERA-WEAR HR CERAMIC WEAR PADS

Wear Resistant | Impact Resistant | Natural Rubber and Ceramic Composite | CN Bonding Layer

## AVAILABLE SIZES

| Standard Pad Sizes |            |           | Ceramic Tile Detail |                        |      | Backing          |
|--------------------|------------|-----------|---------------------|------------------------|------|------------------|
| Thickness (T)      | Length (L) | Width (W) | Shape               | Ceramic Thickness (CT) | AF   |                  |
| 10mm               | 500mm      | 500mm     | Hex                 | 6mm                    | 20mm | CN Bonding Layer |
| 20mm               | 500mm      | 500mm     | Hex                 | 12mm                   | 20mm | CN Bonding Layer |
| 30mm               | 500mm      | 500mm     | Hex                 | 25mm                   | 20mm | CN Bonding Layer |

Cera-Wear HR Ceramic Wear Pads can also be supplied in pads 303mm x 303mm upon request.

Min order quantities and lead times apply to these products

