

## PRODUCT OVERVIEW

Our Ceramic Lined Mining Hose is engineered with Alumina ceramic tiles integrated with our ABRASATECH rubber liner, resulting in our most durable hose designed for the harshest mining conditions.



## KEY FEATURES

- **Exceptional Durability:** The combination of Alumina ceramic tiles and a robust rubber liner ensures maximum resistance against abrasive wear, extending the life of the hose in extreme environments.
- **Flexible Design:** Rubber-filled and backed tiles provide the necessary flexibility, allowing the hose to accommodate movement and misalignment without compromising performance. This design also ensures optimal adhesion of the tiles to the hose body, minimizing the risk of delamination.
- **Customizable Coverage:** While our hoses come standard with full coverage of ceramic tiles, we offer customization options to meet specific application needs. For instance, we can provide coverage exclusively on the outer radius of pre-formed bends, where abrasion resistance is particularly critical.

## APPLICATIONS

Ideal for demanding mining environments, our ceramic lined hoses are suited for transporting highly abrasive materials, ensuring reliability and longevity.

## CAPABILITIES

|                             |  |
|-----------------------------|--|
| <b>Size</b>                 | DN 12-1200mm   |
| <b>Length</b>               | Up to 20mt, <i>Dependant on hose I.D*</i>  |
| <b>Duty</b>                 | Suction & Discharge, <i>Discharge only*</i> (No wire reinforcement)  |
| <b>Max working pressure</b> | -100kpa to + 8000kpa, <i>Dependant on hose I.D*</i>  |
| <b>Reinforcement</b>        | Spiral synthetic fabric  |
| <b>Tube</b>                 | <b>ALUMINA CERAMIC TILES + ABRASATECH™</b>   |
| <b>Ceramic coverage</b>     | Full coverage of tube as standard  |
| <b>Cover</b>                | <b>ABRASATECH™</b>   |
| <b>Ends</b>                 | Beaded, Flanged, In-Built coupling (NPT, BSP, Victaulic, fixed or swivel flange), Plain cut, Raised, Cuffed. <i>Custom available upon request.</i> |
| <b>Flange patterns</b>      | Flanges to all standards, <i>Custom flange patterns available upon request.</i>  |
| <b>Connection material</b>  | Hot dipped gal (as standard), Stainless steel (SS316, SS304), Carbon steel, painted  |
| <b>Temp</b>                 | -30/+130C  |
| <b>Safety Factor</b>        | 4:1  |

## TECHNICAL PROPERTIES

| Hose Size |    |       | Standard Ceramic Thickness | Standard Liner Thickness | Vacuum Rating | Standard Working Pressure |     | Safety Factor | Min Bend Radius |       | Weight |      |
|-----------|----|-------|----------------------------|--------------------------|---------------|---------------------------|-----|---------------|-----------------|-------|--------|------|
| DN        | in | mm    | mm                         | mm                       | %             | kPa                       | PSI | Ratio         | Mt              | X Dia | Kg/m   | Kg/m |
| 50        | 2  | 50.8  | 4.5                        | 6                        | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 3.1    | 2.2  |
| 80        | 3  | 76.2  | 4.5                        | 6                        | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 4.7    | 3.2  |
| 100       | 4  | 101.6 | 4.5                        | 6                        | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 6.2    | 4.4  |
| 125       | 5  | 127   | 4.5                        | 6                        | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 7.9    | 5.4  |
| 150       | 6  | 152.4 | 4.5                        | 6                        | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 9.8    | 6.3  |
| 200       | 8  | 203.2 | 4.5                        | 6                        | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 15.1   | 9.5  |
| 250       | 10 | 254   | 4.5                        | 9                        | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 25.0   | 16.4 |
| 300       | 12 | 304.8 | 4.5                        | 9                        | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 33.0   | 19.4 |
| 350       | 14 | 355.6 | 4.5                        | 12                       | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 45.1   | 30.8 |
| 400       | 16 | 406.4 | 4.5                        | 12                       | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 54.1   | 35.1 |
| 450       | 18 | 457.2 | 4.5                        | 12                       | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 60.4   | 39.2 |
| 500       | 20 | 508   | 4.5                        | 12                       | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 71.2   | 43.3 |
| 550       | 22 | 558.8 | 4.5                        | 12                       | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 73.4   | 53.6 |
| 600       | 24 | 610   | 4.5                        | 12                       | 100           | 1000                      | 145 | 4:1           | Contact Us      |       | 79.6   | 58.2 |