

# XC10-SERIES HARD WALL CERAMIC HOSE

# ABRASOR®

*Abrasor® XC10 Series Hard Wall Ceramic Hoses are designed for extremely abrasive piping applications where both flexibility and longevity is required. Abrasor® ceramic hose merges the superior cut, scratch, and tear resistance of ceramic with the impact absorption and flexibility of rubber delivering the ultimate hose solution for handling the most aggressive slurry applications.*

*Designed for the rigorous demands of the mining industry, our hoses are ideal for transporting abrasive slurries in various applications, such as mineral processing plants, tailings pipelines and dredging. Abrasor® is manufactured in Australia, making it ideal for the harshest applications in mine sites across the world.*



## TECHNICAL SPECIFICATIONS

|                    |  |
|--------------------|--|
| Hose size          | DN25 - 1200  |
| Length             | Up to 20m  |
| Pressure rating    | -100kPa - +8000kPa   |
| End connections    | Plain<br>Swivel flange(beaded)<br>Fixed flange<br>Flanged spigot (swivel or fixed)<br>Victaulic spigot (shouldered, roll grooved, cut grooved)<br>Threaded<br>Custom |
| Flange patterns    | AS2129, ASME B16.5, ASME B16.47, AWWA C207, AS4087, BS EN 1092, BS 3293, JIS B2220, SANS 1123, DIN ISO 7005, custom  |
| Safety factor      | 4:1  |
| Temperature rating | -30 to +80 (ABRASATECH)  |
| Optional extras    | Anti-static wire<br>Wear monitor<br>ID tagging   |

## MATERIAL SPECIFICATIONS

|                     |  |
|---------------------|--|
| Ceramic Liner       | 92% Alumina (standard)<br>95% Alumina<br>99% Alumina<br>Zirconia toughened alumina   |
| Inner Liner         | ABRASATECH (for high wear slurry)<br>QUARRYTECH (for fine sands slurry)<br>ROCKTECH (for large rock slurry)                          |
| Reinforcement       | Spiralled synthetic fabric<br>Wire helix   |
| Outer cover         | ABRASATECH (for abrasion and UV resistance)<br>NEOTECH FRAS (for FRAS or oily environments)<br>FLOWTECH (for extreme UV or seawater) |
| Connection material | Hot dipped gal (as standard)<br>Stainless steel (SS316, SS304)<br>Carbon steel<br>Painted<br>Custom                                  |

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## TECHNICAL PROPERTIES

| HOSE SIZE |        | STANDARD CERAMIC LINER THICKNESS | MAX CERAMIC LINER THICKNESS | VACUUM RATING | STANDARD WORKING PRESSURE |     | MAX WORKING PRESSURE |      | SAFETY FACTOR | MINIMUM BEND RADIUS |
|-----------|--------|----------------------------------|-----------------------------|---------------|---------------------------|-----|----------------------|------|---------------|---------------------|
| DN        | mm     | mm                               | mm                          | %             | kPa                       | PSI | kPa                  | PSI  | Ratio         | Xdia                |
| 50        | 50.8   | 4                                | 4.5                         | 100           | 1000                      | 145 | 8000                 | 1160 | 4:1           | Contact us          |
| 80        | 76.2   | 4                                | 4.5                         | 100           | 1000                      | 145 | 8000                 | 1160 | 4:1           | Contact us          |
| 100       | 101.6  | 4                                | 6                           | 100           | 1000                      | 145 | 8000                 | 1160 | 4:1           | Contact us          |
| 125       | 127    | 4                                | 6                           | 100           | 1000                      | 145 | 8000                 | 1160 | 4:1           | Contact us          |
| 150       | 152.4  | 4                                | 6                           | 100           | 1000                      | 145 | 8000                 | 1160 | 4:1           | Contact us          |
| 200       | 203.2  | 4                                | 12                          | 100           | 1000                      | 145 | 8000                 | 1160 | 4:1           | Contact us          |
| 250       | 254    | 4                                | 12                          | 100           | 1000                      | 145 | 8000                 | 1160 | 4:1           | Contact us          |
| 300       | 304.8  | 4                                | 12                          | 100           | 1000                      | 145 | 6000                 | 870  | 4:1           | Contact us          |
| 350       | 355.6  | 4                                | 12                          | 100           | 1000                      | 145 | 6000                 | 870  | 4:1           | Contact us          |
| 400       | 406.4  | 4                                | 12                          | 100           | 1000                      | 145 | 5000                 | 725  | 4:1           | Contact us          |
| 450       | 457.2  | 4                                | 12                          | 100           | 1000                      | 145 | 4000                 | 580  | 4:1           | Contact us          |
| 500       | 508    | 4                                | 12                          | 100           | 1000                      | 145 | 4000                 | 580  | 4:1           | Contact us          |
| 550       | 558.8  | 4                                | 12                          | 100           | 1000                      | 145 | 4000                 | 580  | 4:1           | Contact us          |
| 600       | 610    | 4                                | 12                          | 100           | 1000                      | 145 | 4000                 | 580  | 4:1           | Contact us          |
| 650       | 660.4  | 4                                | 12                          | 100           | 1000                      | 145 | 2500                 | 363  | 4:1           | Contact us          |
| 700       | 711.2  | 4                                | 12                          | 100           | 1000                      | 145 | 2500                 | 363  | 4:1           | Contact us          |
| 750       | 762    | 4                                | 12                          | 100           | 1000                      | 145 | 2500                 | 363  | 4:1           | Contact us          |
| 800       | 812.8  | 4                                | 12                          | 100           | 1000                      | 145 | 2500                 | 363  | 4:1           | Contact us          |
| 900       | 914.4  | 4                                | 12                          | 100           | 1000                      | 145 | 2500                 | 363  | 4:1           | Contact us          |
| 1000      | 1016   | 4                                | 12                          | 100           | 700                       | 102 | 2500                 | 363  | 4:1           | Contact us          |
| 1100      | 1117.2 | 4                                | 12                          | 100           | 700                       | 102 | 2500                 | 363  | 4:1           | Contact us          |
| 1200      | 1219.2 | 4                                | 12                          | 100           | 700                       | 102 | 2500                 | 363  | 4:1           | Contact us          |

### Key notes

1. Hoses can be fully customised to non-standard specifications including, inside diameter, outside diameter, liner thickness, working pressure, bend radius and weight
2. As standard ceramic tiles will have complete coverage throughout entire hose lining. Custom options can include ceramic tiles only on outer radius where abrasion resistance is especially critical
3. Max liner thickness and working pressure will not be compatible with all end configurations, please get in contact with us to find out more

