



CastoSLURRY

Rubber-Ceramic Flexible Composite Hoses & Elbows



The product is fully customizable and available in non-standard specifications upon request.

- Ceramic Internal Coverage (Cross-Section): Refers to ceramic tile pad coverage around the hose/pipes' inside diameter (e.g., X degrees, from Y o'clock to Z o'clock).
- Ceramic Internal Coverage (Longitudinal): Refers to ceramic tile pad coverage down the length of the hose (e.g., starting X mm from end 1 and finishing Y mm from end 2).
- Safety Factor: The ratio of working pressure to the minimum rated burst pressure.



Specialty Mining Hoses Elbows and straight pieces made from RUBBER- CERAMIC composite materials.

CastoSLURRY offers a range of versatile mining hoses, including T-pieces, elbows, straight pipes, and hoses, with ceramic-lined options suitable for demanding suction and discharge tasks. These top-quality products are crafted in Ireland and the UAE, providing the ideal solution for applications involving severe wear and the need for flexibility.

CastoSLURRY hoses excel in accommodating movement and misalignment during installation and replacement, making them a practical choice. They are commonly used in challenging environments such as high-wear slurry management in mineral processing facilities, dredging operations, and slurry pipelines. Moreover, these hoses can be fully customized, with specialized engineered designs available upon request.

The **CastoSLURRY** composite system incorporates a unique ceramic and rubber liner, combining the exceptional wet sliding abrasion resistance of ceramic with the remarkable energy rebound and dispersion of rubber.

This fusion delivers outstanding performance, especially in severe slurry scenarios, including bends and fittings, where medium impingement angles (10–45°) are prevalent.

Technical Specifications

Hose size

- DN80–1500 (3–60") as standard
- Custom sizes to suit customer requirements

Pressure rating

- 100kPa to +5000kPa (-14.5psi to +725psi)
- Higher ratings available on request

Temperature rating

-30°C to +75°C for CastoSLURRY A rubber + Ceramic Tiles

CLX internal coverage

- Cross-section: full 360° as standard
- Longitudinal: full length as standard

Thread types

BSP, NPT, API, premium, custom

Safety factor

4:1 as standard

Extra options

Custom nozzles, branches, or connections
Wear monitoring system (plug-only or push-button)

End connections

- Plain end
- Flanged (fixed or swivel)
- Flanged full spigot (fixed or swivel)
- Double flanged
- Grooved (roll or cut)
- Threaded
- Butt weld
- Custom

Flange types

AS2129, ASME B16.5, ASME B16.47, AWWA C207, AS4087, BS EN 1092, BS3293, JIS B2220, SANS 1123, DIN ISO 7005, custom

Groove types

AWWA C606 OGS, Victaulic AGS, custom

Material Specification

Material Specification

Reinforcement

- Synthetic fabric
- Wire helix

Outer cover

- UV, ozone, and abrasion-resistant rubber

End connections

- Carbon steel (painted, galvanized, custom)
- Stainless steel (SS304, SS316)
- Exotic alloy

Inner liner

- CastoSLURRY rubber + Ceramic (for severe wear Slurry)
- CastoSLURRY rubber + Ceramic (for acidic slurry)
- CastoSLURRY rubber + Ceramic (for oil sands slurry)
- CastoSLURRY rubber + Ceramic (high-temp Slurry)
- CastoSLURRY custom form

Ceramic

- Ceramic Standard: 92% alumina, with 1x wear resistance and 1x fracture toughness.
- Ceramic-A95: 95% alumina, with 2x wear resistance and 1x fracture toughness.
- Ceramic-A99: 99% alumina, with 4x wear resistance and 1.1x fracture toughness.
- Ceramic-ZTA: Zirconia-toughened alumina, with 4.4x wear resistance and 1.4x fracture toughness.
- Ceramic-ARZ: Alumina-reinforced zirconia, with 6.6x wear resistance and 2x fracture toughness.

| Hose size | | | Ceramic Thickness | | Vacuum Rating | Standard Working pressure | | Max working pressure | |
|-----------|----|-----|-------------------|-------------|---------------|---------------------------|-----|----------------------|-----|
| DN | in | mm | Min/std/ (mm) | Max (mm) | % | kPa | PSI | kPa | PSI |
| 80 | 3 | 76 | 4.5 | 4.5 | 100 | 1000 | 150 | 5000 | 725 |
| 100 | 4 | 102 | 4.5 | 6 | 100 | 1000 | 150 | 5000 | 725 |
| 125 | 5 | 127 | 4.5 | 6 | 100 | 1000 | 150 | 5000 | 725 |
| 150 | 6 | 152 | 4.5 | 6 | 100 | 1000 | 150 | 5000 | 725 |
| 200 | 8 | 203 | 4.5 | 12 | 100 | 1000 | 150 | 5000 | 725 |
| 250 | 10 | 254 | 4.5 | 12 | 100 | 1000 | 150 | 5000 | 725 |
| 300 | 12 | 304 | 4.5 | 12 | 100 | 1000 | 150 | 5000 | 725 |
| 350 | 14 | 355 | 4.5 | 12 | 100 | 1000 | 150 | 5000 | 725 |
| 400 | 16 | 405 | 4.5 | 12 | 100 | 1000 | 150 | 5000 | 725 |
| 450 | 18 | 457 | 4.5 | 12 | 100 | 1000 | 150 | 5000 | 725 |
| 500 | 20 | 508 | 4.5 | 12 | 100 | 1000 | 150 | 5000 | 725 |

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Pioneering Industrial Sustainability



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