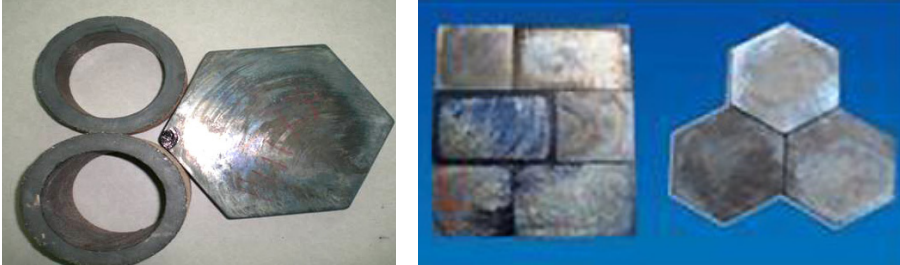


CAST BASALT Technical Data Sheet



Cast Basalt Tiles and Shapes

CAST BASALT – Naturally occurring basalt rock is quarried, melted, cast and annealed to form a fine crystallised glass ceramic of extreme hardness. Cast Basalt is supplied in pipe and tile form and provides an excellent hard wearing surface for abrasive and corrosive applications.

FEATURES:

- Applications up to approximately 400°C
- Increases coefficient of friction as it wears creating favourable flow conditions
- Available in straight pipe, bends and shapes
- Mohs ceramic hardness of 8, diamond has a value of 10.

BENEFITS:

- Extended service life in abrasive and corrosive applications
- Improved service life at cost effective pricing.

APPLICATIONS:

Cast basalt applications include hydraulic and pneumatic piping systems for wet and dry material transfer such as fly ash, ash sluice pits, pulverised coal, coal slurry and many other abrasive transport applications.

SPECIFICATIONS:

| | |
|---|-------------------------|
| Specific gravity | 3.0 – 3.05 |
| Pressure strength (Mpa) | 554 – 661 |
| Break strength | 62.0 – 76.9 |
| Impact strength (KJ/m ²) | 1.56 – 1.66 |
| Wear strength (g/cm ²) | 0.07 – 0.09 |
| Webster hardness (kg/mm ²) | 720 – 860 |
| Mohs hardness | 8 |
| Elastic modulus (ambient) | 1.7 × 10 ⁵ |
| Coefficient of expansion (ambient) | 8.92 × 10 ⁻⁶ |
| Water absorption | <0.1% |
| Softening point | 1197°C |

Mining Products

- **Wear Protection** • Equipment & Machinery
- Drilling and Blasting • Engineering Plastics
- Consumables • Safety