



FIELD FURNACE REFRACTORIES PTY. LTD.

ACN 083 132 432 ABN 88 083 132 432

FFR-FCB Fused Cast Basalt Lining Systems



FFR-FCB exhibits resistance to:

- ◆ Corrosion
- ◆ Friction and abrasion
- ◆ Acid and Alkali
- ◆ Temperature to 350°C

FFR-FCB is typically used in:

- ◆ Coal Handling
- ◆ Ore preparation
- ◆ Power Station Ash Handling
- ◆ Caustic slurry abrasive piping
- ◆ Dry abrasive transfer piping

Cast Basalt Lining Systems from Field Furnace are designed and manufactured to industry standards using high grade materials and construction techniques.

The Basalt raw materials are mined and crushed before being melted at 1000°C and then either spun cast to make cylinders for the internal lining of piping or cast into moulds for other specialized shapes.

With a hardness rating of 8 on the Mohs scale, FFR-FCB offer significant improvement to abrasion resistant pipelining materials such as Cast Iron, Carbon Steel, Rubber or urethanes, with a corresponding increase in lining life.

Unlike other wear lining materials which roughen up as solids pass over them, FFR-FCB is polished as it wears. This slick surface reduces material hang ups and blockages, allowing solids to flow freely.

FFR offers Cast Basalt lining from a quality manufacturing partner, selected after analysis and inspection of a number of producers globally. The manufacturing company was founded in 2003 and currently exports material to markets including Taiwan, India, England, Japan, Australia and Denmark.

Producing in excess of 17,000MT of cast basalt per year and accredited to ISO 9001 across its manufacturing facilities, all pipe welding and basalt installation is completed on site utilizing fully qualified staff.

Cast Basalt can be cast into almost any shape, allowing installation into a wide variety of applications. For pipe applications, cast cylinders can be cemented into any type of pipe (Spiral Weld, ERW Pipe, Fibreglass etc) with pipe ends manufactured to suit the application (flanged, plain or grooved). Elbows, tees and lateral fittings can also be lined with FCB.

FFR-FCB lined systems are typically supplied into Mining, Power Station and Chemical plant applications.

Assisting with all your ceramic needs for over 35 years.

Field Furnace
Refractories Pty Ltd

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Wetherill Park, NSW, 2164

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Typical Data

| Property | Value | Unit |
|----------------------|-----------|--------------------|
| Moh's Hardness | 8 | Moh |
| Density | 3.0—3.05 | g/cm ³ |
| Water Absorption | < 0.1 | % |
| Compressive Strength | 550 — 660 | MPa |
| Break Strength | 60 — 75 | MPa |
| Webster Hardness | 720 — 860 | Kg/mm ² |
| Thermal Conductivity | 1.1 — 1.6 | W/mK |
| Maximum Service Temp | 350 | °C |

Supply

FFR-FCB is typically supplied as a finished shape designed to fit a particular application. Please contact us for assistance in designing a suitable lining for your specific application.

For all applications and enquiries please contact:

Kevin Millar: +61 447 614 558
kevin@fieldfurnace.com.au

This data may be subject to variation due to size and shape, and therefore it should not be used for manufacturing specifications. All testing is to AS1774 where applicable. This is a non-controlled document and before ordering please confirm with intended supplier that the data is current.

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