

APPLICATIONS

- ▷ Pipes
- ▷ Chutes
- ▷ Elbows
- ▷ Cyclones
- ▷ Transitions
- ▷ Fans
- ▷ Process equipment

ADVANCED CERAMICS TECHNOLOGY

CERAMIC SOLUTIONS THAT MAKE A DIFFERENCE



WEAR PREVENTION 3D TECHNOLOGY

CUMITUFF Advanced Technical Ceramics have proven to be a reliable cost effective solution for wear prevention in bulk material transfer for the last 20 years in the Australasian market.

CUMI manufactures complete fabricated components lined with **pre-engineered high purity alumina ceramic linings** to suit almost any application. Our ceramic lining is pre-engineered, designed with 3D modeling to a tight interlocking fit ensuring full contact through the full thickness of the liner with no diverging gaps. **This is critical for a long life, maintenance free ceramic lining** which is far superior to those achieved with standard off-the-shelf tiles.

SAFETY & SAVINGS

The benefits of CUMITUFF Advanced Technical Ceramics are increased production rates, less downtime, improved safety and the **substantial cost savings at the end user** which are essential in today's business environment.

PRE-ENGINEERED
Interlocking
CUMITUFF
Lining

**FABRICATED
STEEL CASING**
in MS or SS,
externally
coated to clients
specification





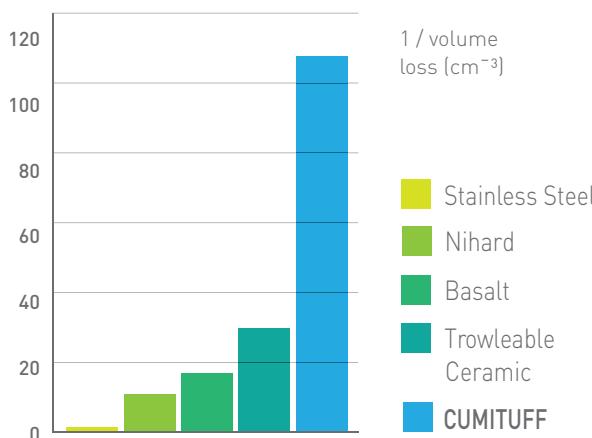
UNMATCHED PERFORMANCE

THE CUMI ADVANTAGE

We will work with you to ensure that you get the **right solution for your wear problem**. Whether you are starting up a new plant or refurbishing an old one, we can develop solutions to meet your needs.

Quality	Manufacturer with well-established and certified international processes
Precision	Consistency in manufacturing and quality assurance
Solutions	Experienced and technically sound providing engineering, design and customer support team
Consistency	Ensuring your needs are met, first time, every time
Reputation	High quality products & solutions at affordable prices

Relative Wear Rates of Lining Materials:



CUMI's advanced technical ceramics are formulated to **provide maximum protection** against abrasive wear and will outlast traditional liners such as basalt, rubber, Nihard and ceramic compounds many times over.

- 1 Not all alumina **wear resistant ceramics** are formulated similar
- 2 Careful consideration must be given to the **design aspects** of the lining
- 3 **Quality of raw materials** and process control in manufacturing has a major impact on the wear performance
- 4 **Technical expertise** and application engineering capabilities of the manufacturer offers significant value to end users
- 5 Abrasion resistance **independently tested** by the CSIRO

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Materials Science & Engineering, Graham Road (PO Box 56), Highett, Victoria, Australia 3190
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27 January 2011 Our Ref: EN13 / 1962 03/0212
TEST REPORT NO. 5660

Requested by: CUMI (Australia) Pty Ltd
PO Box 142
Cronulla
NSW 2294
on (date): 24 January 2011
Manufacturer:
Product Desc.: Alumina Ceramic Slab
Sampling details:
Weight: 100g±5mm
Delivered Date: 24 January 2011
By whom: Geller
How (method): N/A

The results reported relate only to the samples(s) tested and the information received. No responsibility is taken for the accuracy of the sampling unless otherwise agreed. The results do not apply to other samples or conditions. The client is responsible for the use of the test results in relation to the product. While CSIRO takes care in preparing the reports it provides to clients, it does not warrant that the information in this particular report will satisfy the requirements of any particular standard or specification. The client should not rely on this report in making decisions about whether to accept or reject a product or any other person on the basis of the information contained in the report or any opinions expressed in it. The reproduction of this test report is only authorised in the form of a copy of the original document and is not authorised for any partial reproduction.

This test report consists of 3 pages

SUMMARY OF TESTS PERFORMED:

CSIRO BEST-6:1998	Determination of abrasion resistance of stone tiles.
	Average weight loss: 6 mm ³
	CSIRO Capon Index of Abrasion: 0.02 gms
	CSIRO Capon Index of Abrasion: 5392.64

SAMPLE CSIRO TEST REPORT
Determination of abrasion resistance

CUMITUFF WEAR LIMITING PRODUCTS

CUMI

APPLICATIONS

- Ductwork
- Bins
- Hoppers
- Transfer Chutes
- High Impact Areas

ENGINEERED LINER SYSTEMS
AND RUBBER BACKED CERAMICS

CERAMIC SOLUTIONS THAT MAKE A DIFFERENCE

CUMI

PRODUCTS

- Pipe Strip
- Mag Patch
- Liner
- Ceramic Mine Hose
- Hex Mats

RAPID REPAIR SOLUTIONS

CERAMIC SOLUTIONS THAT MAKE A DIFFERENCE

CUMI

SERVICES

- CAD, 3D Modelling
- Wear Inspection
- Pipe Inspecting
- On site off site maintenance
- On site consultation

INTEGRATED SERVICES

CERAMIC SOLUTIONS THAT MAKE A DIFFERENCE

CUMI

APPLICATIONS

- Ceramic components
- Sagnets
- Valves
- Elbows
- Thermal applications
- Corrosive applications

CUMI-XTREME®

CERAMIC SOLUTIONS THAT MAKE A DIFFERENCE

CUMI

APPLICATIONS

- Tailings Pipes
- Backfill Pipes
- Ash Piping
- Ash disposal
- Coal handling

COMPOSITE CAST PIPES

CERAMIC SOLUTIONS THAT MAKE A DIFFERENCE

CUMI

APPLICATIONS

- Pre-engineered ceramics
- Monolithics
- Ceramic lagging
- Mini Cyclones
- Bushes

ENGINEERED CERAMICS

CERAMIC SOLUTIONS THAT MAKE A DIFFERENCE

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