

$CERABOLT^{TM}$

A Unique Approach to Ceramic Fiber Lining Repairs

How CERABOLTS™ can help you:

- Used for overlaying damaged ceramic fiber linings with new blanket
- ◆ CERABOLTS[™] easily penetrate and grip into existing linings - walls or roofs
- Extend lining life indefinitely, delaying the expense of a new lining
- ♦ No tear-out, disposal, or welding
- ♦ 6" and 8" lengths available
- ◆ Made with mullite 3000 °F rating
- Easily installed with a cordless drill and hex socket

Over time, ceramic fiber linings like the one shown below can become thermally stressed, which leads to:

- Excessive Shrinkage
- Vitrification and spalling
- Deterioration
- Anchor Failure





CERABOLTS are easily installed with a cordless power drill and an 11/16" (17mm) socket.





TFL is proud to announce the addition of CERABOLT™ technology to our line of quality products. The CERABOLT™ system consists of a high-alumina ceramic bolt, along with a slotted ceramic washer. CERABOLTS™ can be used for attaching either MAFTEC high-temperature insulation or regular ceramic fiber blanket to existing low-density refractory linings. Worn and damaged ceramic fiber linings can be easily restored with a veneer of new blanket to near-new condition, prolonging production campaigns and saving money.

CERABOLTS[™] come in two types – an auger style that is used for existing blanket or module linings, and the lag style that is used to drill into heavier materials like insulating firebrick or lightweight castables (requires a pilot hole). Repairs can be completed simply by applying a new hot face layer of blanket over an aged, degraded lining and drilling CERABOLTS[™] bolts through to support the new lining material.

An existing, worn ceramic fiber module lining can easily be renewed in very little time, without the expense of removing the old lining and disposing of it. Installation is easy, using simply a power drill and a hex -head socket. No welding of anchors is required.

Holding power has been measured up to 35 lbs. per **CERABOLT**[™]. Compare this to a 1" thickness of 8 lb. density MAFTEC insulation weighing 0.67 lbs., or 2" thickness weighing 1.34 lbs. per square foot.

CERABOLT[™] high-alumina retention bolts come in 6" or 8" lengths.

TFL, INCORPORATED

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Superior Refractory Materials and Precast Shapes