

# MAFTEC® Meets



Patent Pending

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All Industries

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**MAFTEC®** - Mitsubishi Alumina Fiber Technology. **MAFTEC®** was developed in the 1980's by Mitsubishi Plastics Inc. for long term high or cyclic temperature operation. **MAFTEC®** "Polycrystalline Alumina Fibers" exhibit excellent thermal stability, resiliency, erosion resistance and mechanical strength at temperatures to 1600°C - 2912°F.

**MAFTEC®** is a mullite fiber. Mullite is a stable material that does not change molecularly through the temperature range, up until it melts (1850°C). **MAFTEC®** fiber diameter averages 5 microns.

## MAFTEC® SYSTEMS

Polycrystalline Alumina Fiber (Mullite)

- **Service temperature range** - up to 1600°C - 2912°F continuous.
- **Extremely low shrinkage** - 1% at 1400°C - 2552°F. 1 ½% at 1600°C - 2912°F.

### ONCE AGAIN

- **1% Shrinkage at 1400°C.**



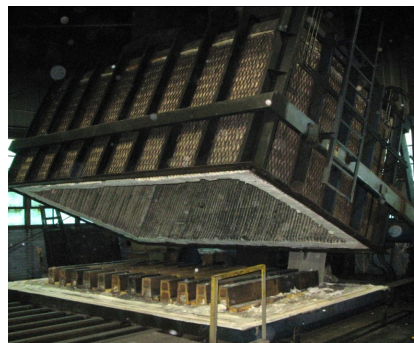
50 pieces/Carton



Drilling is easy



Mafttec with StelBolt



Top Heat Furnace



Shrinkage Gaps

### Hi Alumina Retention System

Introducing **STELBOLT™** Hi Alumina and Mullite Retention System. **STELBOLT™** is a hi-fired refractory shape that easily penetrates ceramic fiber linings existing in wallpaper, modules or board construction.

The purpose of **STELBOLT™** is to either repair or veneer existing fiber linings. Repairs can be completed simply by applying a new hot face layer over an aged, degraded lining and drilling **STELBOLT™** through to support the new lining material.

**STELBOLT™** are typically placed at nominal 12" x 18" centres on sidewalls and 12" x 15" on roofs and overhead applications.

Veneering new layers of **MAFTEC®** over a shrunken, degraded lining restores the original insulating properties designed for your furnace operation. In addition, with as little as 1% shrinkage at 2600°F, the **MAFTEC®** veneer will maintain these insulating properties.

Realize the benefits of 3000°F hi alumina fiber where you need it most - on the hot face lining!!!

"MAFTEC meets **STELBOLT™**"

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