

MAFTEC® Meets



Patent Pending

Bulletin 2011

All Industries

04/11

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.
- **Resiliency Performance** - to 1300°C.
- **Higher Tensile Strength** - maintaining lining integrity.
- **Extreme Weight Reduction** - lining densities of 8-10#/cu.ft compared to monolithic of 150-160#/cu.ft.
- **Thermal Shock Resistance**
- **Installed** easily and quickly in all temperature environments.
- **Low, Low, Low shot** content due to manufacturing technology.
- **Weight** and thickness tolerances to ensure value.

ONCE AGAIN

- **1% Shrinkage at 1400°C.**



50 pieces/Carton



Drilling is easy



Roof Repair



Bolting Wallpaper Lining

Hi-Alumina Retention System

STELBOLT™ was designed to both repair and compliment existing light weight insulating furnace linings.

For repairs, a **MAFTEC®** blanket patch can be placed over a damaged area and very simply a **STELBOLT™** is drill or ratchet driven through the new hot face and into the back up lining. **STELBOLT™** will easily penetrate wallpaper, modules and low density board linings. No mark out required, simply **STELBOLT™** as required.

To improve lining efficiencies that have degraded after months or years of service the **STELBOLT™** simplifies the "venereing" process. Simply apply one or two layers of new blanket and drill the **STELBOLT™** through to a tightened position.

STELBOLT™ holds equally well in both wall and roof application.

Holding power has been measured up to 35 lbs per **STELBOLT™**. Compare this to a 1" thickness of 8# density Maftec weighing .67 lbs or 2" - 1.34 lbs per square foot.

Bolts are typically applied at 1 per 1.5 sq.ft on walls and 1 per 1.25 sq.ft. on roof areas. Burner openings, door areas, flues etc are simply **STELBOLTED** as required.

Fast, effective, solutions to costly down-time and repair programs

STELBOLT™ IT!!!

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