

PuzzleJoint™ Modules



Patent Pending

If you're looking for a low-cost alternative to polycrystalline fiber modules with the flexibility to be used in a wide range of high-temperature refractory applications, Temtek Solutions has your missing piece of the puzzle!

Introducing PuzzleJoint™ Modules: The revolutionary new hybrid module that combines the superior protection of a Maftec™ 3000 Blanket on the hot face side of the module with the less-expensive, but highly durable 2600 HTZ Blanket on the cold face side. Why over-spend and over-protect the cold face side, when you can reap all the benefits of Maftec™ blanket where it matters most—at a fraction of the cost?

PuzzleJoint™

PuzzleJoint™ Modules from Temtek Solutions provides you the best of both worlds. Protecting your most valuable assets under the most difficult conditions, Maftec™ Blanket, is a high-temperature insulation composed of polycrystalline alumina fiber that is unsurpassed in high-temperature durability and insulation performance. Produced by Mitsubishi Plastics, Inc., the world's largest alumina fiber producer, Maftec™ "Polycrystalline Alumina Fibers" exhibit excellent thermal stability, resiliency, erosion resistance and mechanical strength at temperatures up to 1600°C (2912°F).

With Maftec™ Blanket, the packing of opened module joints and shrinkage concerns are a thing of the past. Lining degradation through heat exposure, increasing heat loss, and higher operating costs are also eliminated.

On the cold face side of the module, the 2600 HTZ Blanket is strong, lightweight and durable, and provides adequate protection and significant cost savings.

By putting these two unique materials together, PuzzleJoint™ Modules solve the puzzle and provide a cost-effective solution for nearly any high-temperature application.

Benefits:

- Low-cost alternative for polycrystalline fiber modules
- Allows polycrystalline fiber to be used in applications where it was previously not affordable
- Energy-efficient alternative to replace monolithic dense refractory linings in applications up to 1537°C (2800° F)
- Unique interlocking joint between polycrystalline and ceramic fiber eliminates chance of delamination of module
- No cement or glue required to hold layers together

Applications

- Steel reheat furnaces
- Iron blast furnace trough covers
- Tundish and ladle preheaters
- Reheat and preheater burner flues and exhausts
- Forge furnaces
- Galvanizing furnace linings
- Aluminum furnaces
- High-fired ceramic and glass kilns



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