

# Polyimide Foams Offer Superior Insulation



**Langley Research Center**

**GFT LLC**  
**Pennville, Indiana**

## NASA Technology

- ◆ While trying to create a composite solid, NASA scientists accidentally developed a method for creating an insulating foam out of a polyimide (an advanced polymer) material
- ◆ Named TEEK, the new foam presented a host of advantages over existing insulators



## Partnership

- ◆ The team's invention won an "R&D 100" award and a later version was named "NASA Invention of the Year" in 2007
- ◆ NASA licensed TEEK to GFT, which optimized the technology to create the first highly flexible foam from polyimide spheres

## Benefits

- ◆ The PerForma-H and VersaFlex product lines provide flexible insulation that can cover more than a 1,000-degree temperature range
- ◆ They have a superior performance-to-weight ratio; they do not burn or produce smoke or toxins in a fire
- ◆ Manufacturing the foam is a wasteless process