Frangible Joint

Description

A Frangible Joint is a unique explosive device that provides instantaneous separation of flight vehicle structures while maintaining complete confinement of explosive debris.

The key components of a Frangible Joint include Mild Detonating Fuse (MDF), an explosive confinement tube, a separable structural element, and associated initiation manifolds and attachment hardware.

Upon detonation of the explosive MDF, shock is transmitted to an aluminum structural member that subsequently fractures along a stress riser. Complete confinement of the explosive by-products is maintained by the confinement tube and manifold assembly, and no secondary fracturing of the structural member occurs.

For a full product sheet, please contact EBA&D.