For more information contact us

www.admatis.com contact@admatis.com

Standoff Catalogue

Standoffs are one kind of MLI (Multi-Layer Insulation) fixation solutions that attach the blanket to the structure or the blanket to blanket.

Blanket to structure attachment

The standoff (also called as pin) foot is fixed to the structure by paste adhesive or via a threaded interface hole while the blanket is led through the standoff by its interface holes. The clip washers (also called as collars) or fixation pins are clicked into the standoff groove/ hole.

Blanket to blanket attachment

Blanket attachment method is realized by floating standoffs (also called as buttons). Blankets are led through the standoff by their interface holes then the clip washers or the fixation pins are clicked/inserted into the standoff groove/hole. The standoff foot can be covered by a patch of adhesive tape to avoid moving of standoff and consequently the particle generation.







What we offer

- ✓ ESA qualified product selection (TRL-9)
- ✓ Design
- ✓ Integration
- ✓ Verification
- ✓ Engineering service
- ✓ Cleaning

Application

- ✓ Blanket to blanket
- ✓ Blanket to structure

Material

- ✓ Fiber glass free natural colored PEEK
- ✓ Fiber glass free black pigmented PEEK
- ✓ Titanium

Cleanliness

- ✓ Normal
- ✓ Laboratory
- ✓ Cleanroom compatible



60















Materials





Qualification

- PEEK standoffs, clip washers and gluing were tensile tested with blanket in in-plane and out-of-plane directions at different temperatures and with different substrates
- Requirement:
 - Clip-washers shall withstand a 20N pull-off force and the standoff attachment itself shall bear 100N force
 - Minimum force to be endured is 54N calculated from general Admatis design features and 60g QSL mechanical environment







In-plane test results





Out-of-plane test results



Mating-demating

- PEEK clip washer mating-demating cycles are covered by mechanical analysis and test
 - ✓ 15 cycles are qualified



