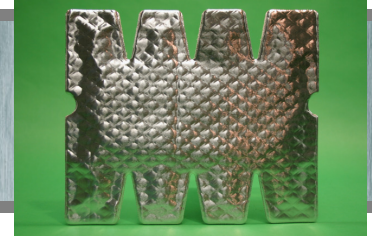


Thermal and Acoustical Systems

ZeroClearance® - ZC300 Series

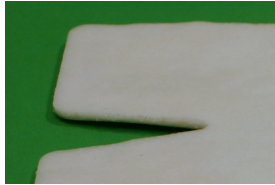
(Polyester Core / Adhesive mounted shields designed for Sheet metal applications)



ZeroClearance Shields are an advanced alternative to traditional thermal and acoustical metal shields. ZeroClearance shields are comprised of high-performance aluminum sheeting (various thicknesses available), a mechanically needle-punched fiber composite spacer, and a unique, high-temperature pressure-sensitive adhesive on the back for attachment.

Applications:

- Underbody above exhaust system
- HVAC thermal protection
- Fuel tank thermal protection
- Air bag module thermal protection



Features and Advantages:

- Low tooling costs
- Short lead-times for production
- Approved at several major OEM's
- Ideally suited for applications where little space exists for traditional stampings
- Acoustical sound deadening benefits without the squeak and rattle issues of stampings
- Withstands 246°C (475°F) oven test for 30 hours with no failure
- Alternative adhesives available depending upon surfaces to be adhered to

Typical Properties:

Material Type:	Polyester core material
Core Thickness:	3mm (0.125 inch) – (ZC312) 6mm (0.250 inch) – (ZC325)
Foil Thickness:	0.05mm (0.002") - (ZC312/325-02) (.25mm passes gravelometer) 0.25mm (0.010") - (ZC312/325-10)
Weight:	915-1400 g/m ² (3-4.5 oz/ft ²)
Moisture Absorption:	0.3% (Pass)
Thermal Conductivity (k-Value)	24°C: 0.036 W/m ² K 93°C: 0.043 W/m ² K
Adhesion To E-Coated Steel	19.2 N/cm after 24hr Dwell (ZC312-02)
Tensile Strength	248 N/cm ² (ZC312-02) 427 N/cm ² (ZC325-10)
Tear Resistance	944 N/cm (ZC312-02) 944 N/cm (ZC325-10)

*All values Approximate

