

Thermal and Acoustical Systems

ZeroClearance® - ZC100 Series

(Polyester and Glass 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

OEM Material Specifications:

- Ford WSS M99P32-E6
- GM GMW16653, Type 6
- FCA MS10943
- Honda 7494Z-T6N -A000
- Navistar MPAPS L-6610

Features and Advantages:

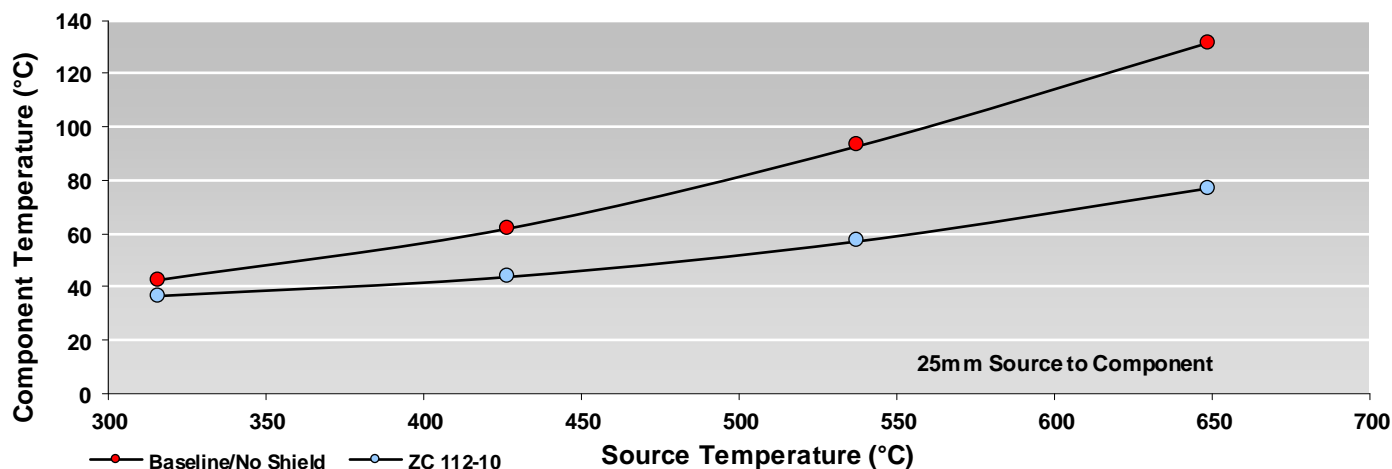
- Low tooling costs
- Short lead-times for production
- Approved at several major OEM's
- Ideally suited for applications where little space exists for traditional stampings
- Acoustical sound deadening benefits without the squeak and rattle issues of stampings
- Withstands 232°C (450°F) oven test for 500 hours with no failure
- Alternative adhesives available depending upon surfaces to be adhered.

Typical Properties:

Material Type:	Polyester & Fiberglass core material
Core Thickness:	4mm (0.160 inch) - (ZC112)
Foil Thickness:	0.05mm (0.002") - (ZC112-02) 0.25mm (0.010") - (ZC112-10)
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/°K 93°C: 0.043 W/m/°K
Adhesion To E-Coated Steel	22.1 N/cm after 24hr Dwell (ZC112-10)
Tensile Strength	145 N/cm ² (ZC112-02) 526 N/cm ² (ZC112-10)
Tear Resistance	222 N/cm (ZC112-02) 333 N/cm (ZC112-10)

*All values Approximate

ZeroClearance Thermal Performance - Glass



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