

MULTI-LAYER THERMAL HEATSHIELD

# **GENERAL** DESCRIPTION

An ultra-high performance, tri-layer thermal and acoustical heatshield

### **PRODUCT** HIGHLIGHTS

- Provides significant temperature drop across the shield when facing extreme temperatures
- Does not ring or resonate, providing acoustical damping of engine and exhaust noise
- Flexible design and manufacturing process enables meeting customer's specific thermal needs
- Durable and resistant to automotive environments

# **APPLICATIONS**

Typical automotive applications include exhaust manifolds, downpipes, catalytic converters, turbochargers, turbo outlet pipes, exhaust cross-over/cross-under pipes, mufflers, resonators, x-pipes and y-pipes.

# **OTHER** PROPERTIES

- All three layers of ThermaShield are stamped simultaneously, which requires only one tool.
- Materials for each layer can be selected to meet customer-specific thermal scenarios.
- Materials used efficiently to reduce mass and cost.

THICKNESS	Typical thickness (all three layers) is 0.25mm to 10mm
MATERIAL SELECTION	Common materials include aluminized steel, 304/409/439 stainless steel and aluminum
ASSEMBLY	Depending on the material selection, ThermaShield may be banded, welded or bolted
EDGE CONDITION	Partially and fully hemmed





### MULTI-LAYER THERMAL HEATSHIELD

# THERMAL PERFORMANCE



# **ACOUSTIC** PERFORMANCE

#### ACOUSTIC PERFORMANCE





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