

Energy, Industrial & Transport *Technology Solutions*



About Systems Protection

Federal-Mogul Systems Protection (FMSP) is the world's foremost supplier of protective sleeving and shielding solutions for wires, hoses, and mechanical assemblies. Major industries served include automotive, aerospace and defense, as well as a host of industrial segments. With sales, manufacturing, and innovation centers located in the Americas, Europe and Asia, FMSP delivers the broadest, most innovative product portfolio to both original equipment and tier suppliers. FMSP is the proud manufacturer of Bentley-Harris® protection products.

About Federal-Mogul

Headquartered in Southfield, Michigan, Federal-Mogul Corporation is a leading global supplier of powertrain and safety solutions to the world's foremost original equipment manufacturers of automotive, light commercial, heavy-duty, agricultural, marine, rail, off-road and industrial vehicles, as well as the worldwide aftermarket. With locations in 35 countries, the company's leading technology and innovation, lean manufacturing expertise, and global distribution network delivers world-class products, brands and services at a competitive cost.

Our Mission

To be recognized by our customers, on a worldwide basis, as the pre-eminent supplier of protection products, by providing excellent product value, outstanding customer service and innovative product solutions.



Focus on Energy, Industrial & Transport

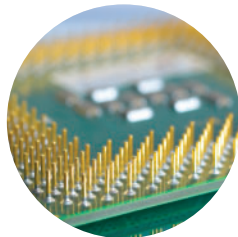


Systems Protection offers a comprehensive line of bundling and component protection solutions for the Energy, Industrial, and Transport (EIT) markets. Our wide range of products include sleeving and shielding to protect against abrasion, radiant and convective heat, and electromagnetic interference.

We are focused on serving the diverse needs of our customers in a variety of EIT markets, including:



**Off-Road
Vehicle**



Electronics



Marine



**Offshore Oil
Drilling**



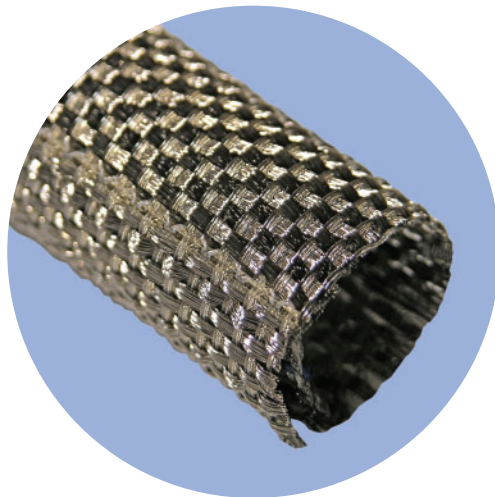
Railway

With excellent products, strong technical services, and global manufacturing and distribution, Federal-Mogul Systems Protection is the supplier of choice for component protection.

Leading Edge Solutions



Sensor/Connector Protection



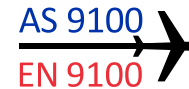
EMI Protection

Federal-Mogul Systems Protection is committed to the continual development of innovative solutions that meet your ever changing needs. From concept to commercialization, we focus on the advancement of engineering technologies from our state-of-the-art research, development and testing facilities located worldwide. Our specific areas of concentration include:

- Abrasion & Damage Protection
- Acoustic Noise Generation & Propagation
- Heat Generation & Absorption
- Materials Engineering
- Electromagnetic Shielding

Our experienced technical teams are focused on new technology exploration as well as new product development. With innovation facilities in North America, Europe and Asia, we are fully staffed to ensure quick and appropriate customer response.

And with certifications including ISO/TS 16949:2002 for Quality Management Systems, and ISO 14001:2004 for Environmental Management with conformity for Occupational Health & Safety, you'll always be assured of the quality and reliability of our products.





Exceptional Capabilities





We are committed to providing customers with extensive technical support related to their application requirements. We offer extensive qualification reports on our components through our world-class technology centers. Utilizing state-of-the-art test equipment, we are able to simulate real-life conditions that allow you to evaluate our product performance for your specific application. Testing capabilities provide evaluation of the following:

- **Acoustical:** sound dampening and absorption effect of a product
- **EMI:** ability of a component to dissipate or shield from electromagnetic interference
- **Environmental:** product performance in terms of anticipated environmental conditions, including flammability, smoke density, durability, fogging, stone impingements, and humidity
- **Mechanical:** abrasion resistance, tensile strength, and impact effect on a product under various stress conditions
- **Thermal:** insulating ability of a product to protect or contain heat from an external or internal heat source



Our ability to simulate customer specific scenarios on-site, utilize predictive modeling and conduct extensive testing enables us to quickly respond and deliver the highest level of protection for your applications. Our technical teams are at your disposal to define and conduct the tests most appropriate to your component needs.



	Product	Description	Temperature	Flammability	Halogen Free	Aerospace Grade*	UL Recognized	Construction	Available Sizes
ELECTRONICS	 Expando® PT Plus	Highly expandable braid (1:3) with strong mechanical protection; treated to prevent end-fray; available in a variety of colors for identification	-70°C to +125°C (-94°F to +257°F)		✓		✓	Material: Polyester Colors: Natural, Black, Yellow, Blue, Gray, Orange	3 to 64 mm (1/8" to 2-1/2")
	 Expando® FR Plus	Highly expandable braid (1:3) with strong mechanical protection and outstanding flame resistance; treated to prevent end-fray	-70°C to +125°C (-94°F to +257°F)	UL 1441 VW-1 FAR Part 25			✓	Material: Flame-retardant polyester Colors: Black with white tracer; White with black tracer	3 to 64 mm (1/8" to 2-1/2")
	 ROUNDIT® 2000	Self-wrapping sleeve with strong mechanical protection; quick and easy installation on cables	-70°C to +125°C (-94°F to +257°F)	FMVSS-302 Test Method D45 1333 Self-extinguishing Type B	✓		✓	Material: Polyester Color: Black	5 to 45 mm (3/16" to 1-3/4")
	 Expando® QT / TCP S	Highly expandable braid (1:3) with a combination of mono and multifilaments, offering both noise suppression and mechanical protection	-50°C to +150°C (-58°F to +302°F)	FMVSS-302 Test Method D45 1333 Self extinguishing Type B	✓			Material: Polyester Color: Black	3 to 32 mm (1/8" to 1-1/4")
HEAVY DUTY / INDUSTRIAL	 Expando® DM	Expandable braid (1:2) with high mechanical protection; ideal protection from cut-through	-70°C to +125°C (-94°F to +257°F)		✓		✓	Material: Nylon and polyester Color: Black	3 to 51 mm (1/8" to 2")
	 ProGard®	Tubular woven sleeve with outstanding mechanical protection; ideal for hydraulic hose protection	-20°C to +125°C (-4°F to +257°F)		✓			Material: Nylon Color: Black	19 to 70 mm (3/4" to 2-3/4")
RAILWAY	 ROUNDIT® 2000 FR	Self-wrapping sleeve with good mechanical protection; soft to the cable structure	-50°C to +150°C (-58°F to +302°F)	NF 16 101 - 16102 : I2 F2 DB DIN 5510 § 2 & 54837 : S4,SR2,ST2; ASTM E 662 - ASTM E 162	✓			Material: Flame-retardant polyester Color: Black	5 to 50 mm (3/16" to 2")
	 ROUNDIT® 2000 V0	Self-wrapping sleeve with high mechanical protection; ideal flame resistance with low toxicity and smoke emission	-50°C to +150°C (-58°F to +302°F)	NF 16101 - 16102: I2 F2; DB DIN 5510 § 2 & 54837: S4,SR2, ST2; UNI; ASTM E 662 - ASTM E 162 Raw material UL 94 V0	✓			Material: UL 94 V0 Rated Polyester Color: Black	5 to 50 mm (3/16" to 2")
	 Expando® TCP V0	Expandable braid (1:2) with strong mechanical protection; with low toxicity and smoke emission	-50°C to +150°C (-58°F to +302°F)	NF 16101 - 16102: I2 F2; DB DIN 5510 § 2 & 54837: S4,SR2, ST2; UNI; ASTM E 662 - ASTM E 162 Raw material UL 94 V0	✓			Material: UL 94 V0 Rated Polyester Colors: Black with gray tracer; Gray with a black tracer	3 to 50 mm (3/16" to 2")
	 Self-Amalgamating Tapes	Provide good fluid resistance and are ideal for sealing, connecting and finishing cut ends.	-55°C to +260°C (-67°F to +500°F)	FAR Part 25 § 853 & ABD 031	✓		✓	Material: Un-supported or supported with fiberglass silicone tapes Color: Black	19 to 50 mm (3/4" to 2")
SPECIALTY HIGH TEMPERATURE	 Expando® HR Plus	Highly expandable braid (1:3) with good mechanical protection and outstanding chemical resistance; treated to prevent end-fray	-70°C to +150°C (-94°F to +302°F)	UL 1441 VW-1 FAR Part 25		✓	✓	Material: Halar Color: Black with a white tracer; White with a black tracer	3 to 64 mm (1/8" to 2-1/2")
	 ROUNDIT® PPS	Self-wrapping sleeve with good mechanical protection; ideal for mechanical protection of shielding metal in swamp areas	-60°C to +175°C (-76°F to +347°F)	FAR Part 25	✓		✓	Material: PPS Color: Black	5 to 38 mm (3/16" to 1-1/2")
	 Expando® 686 DM	Expandable braid (1:2) with outstanding mechanical protection; ideal solution for high temperature mechanical performance	-70°C to +200°C (-94°F to +392°F)	UL 1441 VW-1 FAR Part 25	✓		✓	Material: PEEK & PPS Color: Black, Natural	3 to 64 mm (1/8" to 2-1/2")
	 Expando® HTNS-L/HO	Expandable braid (1:2) with strong mechanical protection; oil and water repellent treated sleeve with the additional benefit of being soft to the cable structure	-60°C to +240°C (-76°F to +464°F)	FAR Part 25	✓		✓	Material: Nomex® Color: Camouflage green, ivory	2 to 30 mm (5/64" to 1-3/16")
	 ROUNDIT® 2000 NX / NX HT	Self-wrapping sleeve with high mechanical protection; ideal solution for high temperature mechanical performance	-60°C to +260°C (-76°F to +500°F)	FAR Part 25	✓		✓	Material: Nomex® and PPS or PEEK Color: Camouflage green, Orange, Red	5 to 40 mm (3/16" to 1-5/8")

Nomex is a registered trademark of DuPont





* meets highly stringent requirements of aerospace/defense industry



	Product	Description	Temperature	Type of Heat Protection	Halogen Free	Aerospace Grade*	Construction	Available Sizes
HEAVY DUTY / INDUSTRIAL	 Industrial FyreJacket® / Thermotubix	Silicone-coated sleeve with good resistance to high temperatures; provides excellent protection against high temperatures, fire, and molten splashes	-54°C to +260°C (-65°F to +500°F)	Convective	✓		Material: Fiberglass and silicone Color: Reddish-brown	8 to 101 mm (5/16" to 4")
	 ThermoJacket® R / S	Braided sleeve with excellent resistance to high temperatures; used as a long-term heat protection; extremely expandable (TJ-R) or delivered without anti-fray impregnation (TJ-S)	up to +550°C (up to +1022°F)	Convective	✓	✓	Material: Fiberglass Color: Natural	6 to 102 mm (1/4" to 4")
	 ThermoJacket® C	Nexel braided sleeve with outstanding resistance to high temperatures; used as a long-term heat protection	up to +1200°C (up to +2200°F)	Convective	✓		Material: Nextel® 312 Color: Natural	5 to 64 mm (1/4" to 2-1/2")
RAILWAY	 GES 40 / 100	Coated braided sleeve with dielectric resistance to 4kV or 10kV provides effective grounding of metal braid; resistant to salt and other harsh environments	-60°C to +220°C (-76°F to +428°F)	Conductive	✓		Material: Silicone rubber and fiberglass Color: Reddish-brown	0.5 to 32 mm (1/32" to 1-1/4")
	 Aerospace FyreJacket® / Thermotubix	Silicone-coated sleeve with outstanding fire protection up to +1100°C; provides excellent protection against high temperatures, fire, and molten splashes	-54°C to +260°C (-65°F to +500°F) 15 min at 1100°C (2012°F)	Conductive	✓	✓	Material: Fiberglass and silicone Color: Reddish-brown, black, aluminum	8 to 101 mm (5/16" to 4")
	 FyreTape® / Thermobande	Silicone-coated tape with good fire protection; easy to install on big pipes; may be used to replace or compliment Thermotubix	-54°C to +260°C (-65°F to +500°F)	Conductive	✓		Material: Fiberglass and silicone Color: Reddish-brown, aluminum	25 to 152 mm (1" to 6")
SPECIALTY HIGH TEMPERATURE	 ROUNDIT® Therm A	Self-wrappable sleeve with 3 layers for high fire protection up to +1100°C; excellent cut-through and abrasion resistance	-60°C to +260°C (-76°F to +500°F) 5 min at 1100°C (2012°F)	Flame-resistant	✓	✓	Material: Nomex® and PEEK with panox and silica Color: Olive green	10 to 32 mm (3/8" to 1-1/4")
	 ROUNDIT® Therm B	Self-wrappable sleeve with 2 layers with outstanding fire protection; excellent cut-through and abrasion resistance	-60°C to +260°C (-76°F to +500°C) 15 min at 1100°C (2012°F)	Fire-proof	✓	✓	Material: Nomex® and PEEK with fiberglass and silicone Color: Olive green	10 to 32 mm (3/8" to 1-1/4")
	 Thermocord®	Flexible rope with good resistance to high temperatures; provides complete isolation of air exchange	up to +550°C (up to +1022°F)	Conductive			Material: Fiberglass Color: White, Gray (adhesive version)	5 to 40 mm (1/4" to 1-5/8")
	 PyroSeal	Stainless steel knitted tube with good resistance to high temperatures; provide complete isolation to oven doors	up to +550°C (up to +1022°F)	Conductive			Material: Stainless steel and fiberglass Color: Gray or black	Customized part
	 TST / TSX	Silica braided sleeve with outstanding resistance to high temperatures; used for long-term heat protection in extreme environments	-60°C to +1100°C (-76°F to +2012°F)	Conductive	✓	✓	Material: Silica Color: Natural	0.5 to 35 mm (1/32" to 1-13/32")
OFFROAD	 Therm-L-Wrap™	Self-wrappable sleeve with an adhesive closure offers excellent radiant heat protection; provides component protection in high temperature areas	-40°C to +200°C (-40°F to +392°F)	Radiant	✓		Material: Aluminum with fiberglass Color: Aluminum	10 to 25 mm (3/8" to 1")
	 ReflectSleeve® / Therm-L-Lite®	Tubular sleeve with excellent radiant heat protection; provides component protection in high temperature areas	-50°C to +220°C (-58°F to +428°F)	Radiant	✓		Material: Aluminum with fiberglass Color: Aluminum	10 to 51 mm (3/8" to 2")
	 Convoshield®	Corrugated sleeve with good resistance to high temperatures; provides component protection in high temperature areas	-40°C to +175°C (-40°F to +347°F)	Radiant	✓		Material: Nylon Color: Aluminum	6 to 25 mm (1/4" to 1")
	 ThermoJacket® E	Knitted sleeve with excellent resistance to high temperatures; good thermal containment performance	up to +650°C (up to +1202°F)	Convective	✓		Material: Basalt Color: Brown	51 to 140 mm (2" to 5-1/2")
	 ThermoJacket® D	Knitted sleeve with excellent resistance to high temperatures; outstanding thermal containment performance	up to +1000°C (up to +1832°F)	Convective	✓		Material: Silica and fiberglass Color: White	19 to 127 mm (3/4" to 5")

Nomex is a registered trademark of DuPont • Nextel is a registered trademark of 3M Corporation.
* meets highly stringent requirements of aerospace/defense industry



	Product	Description	Temperature	Flammability	Halogen Free	Aerospace Grade*	Metal	Construction	Available Sizes
HEAVY DUTY / INDUSTRIAL	 ROUNDIT® 2000 Cu EMI	Tough self-wrapping solution; flexible and easy to install offering a combination of EMI shielding and abrasion resistance for long term protection	-60°C to +150°C (-76°F to +257°F)		✓		Tin-plated copper	Material: Tin-plated copper and polyester mono- and multi-filaments Color: Black	5 to 38 mm (3/16" to 1-1/2")
RAILWAY	 ROUNDIT® V0 EMI	Self-wrapping metal solution; flexible and easy to install providing high performance EMI shielding	-65°C to +200°C (-85°F to +392°F)	NF 16101 16102 I2 F1 DIN5510 5437 S4, SR2, ST2 Raw Material UL94 V0	✓		Nickel-plated copper C4	Material: Nickel-plated copper C4 according to ASTM B-355 combined with PPS monofilament Color: Light gray	8 to 45 mm (5/16" to 1-3/4")
SPECIALTY HIGH TEMPERATURE	 ROUNDIT® EMI FMJ	Self-wrapping metal solution with 95% optical coverage; flexible and easy to install providing very high performance EMI shielding	-65°C to +200°C (-85°F to +392°F)	NF 16101 16102 I3 F0 DIN5510 5437 S4, SR2, ST2 Raw Material UL94 V0 FAR Part 25 § 853 & ABD 0031	✓	✓	Nickel-plated copper C4	Material: Nickel-plated copper C4 according to ASTM B-355 combined with PPS monofilament Color: Light gray	8 to 38 mm (5/16" to 1-1/2")
	 ROUNDIT® 2000 NX EMI	Self-wrapping multi-layer solution providing mechanical protection and very high performance EMI shielding; can also be delivered with an inner layer of PTFE for protection of the cables against abrasion from the metal layer	-55°C to +200°C (-65°F to +392°F)	FAR 25 § 853 A & B	✓	✓	Nickel-plated copper C27	Material: Nickel-plated copper C27 according to ASTM B-355 combined with Nomex® multifilaments and PPS monofilaments. Also available with inner layer of PTFE tape. Color: Olive green	6 to 38 mm (1/4" to 1-1/2")

EMI Highlights

Electromagnetic Interference (EMI) can cause adverse effects on electronic components and equipment leading to operational malfunctions. Proper shielding and grounding of electromagnetic sensitive components can effectively eliminate this occurrence. Our EMI shielding products, constructed from materials including nickel-plated copper, tin-plated copper and stainless steel, Nomex®, PPS and polyester, provide excellent shielding properties with the added benefit of abrasion or thermal protection.

Services Provided to the Customer

Mock-up Service: We offer a unique service that provides you with the most appropriate solution in terms of shielding efficiency and installation. Using your harness, our engineers analyze your shielding needs. We define the specific products, accessories and related grounding solutions for your application as well as provide an installation guide to ensure the best solution to your EMI challenges.

Customized Test Reporting:

Our state-of-the-art test laboratory is available to evaluate your current

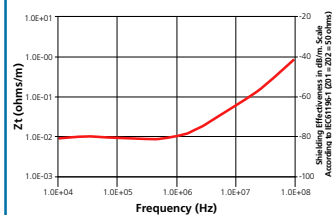
or future wire harness shielding solutions. A detailed test report can be generated for your different harnessing and protection scenarios, allowing you to benchmark various application concepts. Working together, we can help fine-tune the appropriate solution to meet your



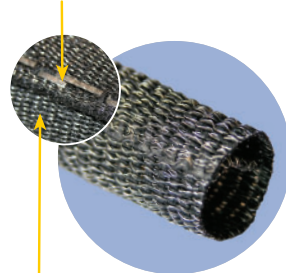
Nomex is a registered trademark of DuPont

ROUNDIT® 2000 Cu EMI

Transfer Impedance Measurement (Size 13)



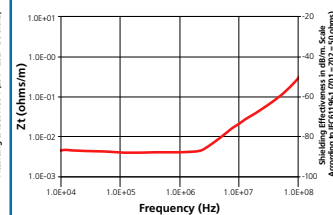
Optional tin-plated copper wire can be woven in the design to provide an easy grounding solution



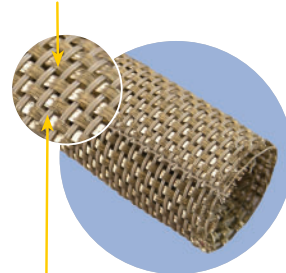
Polyester multifilament to provide abrasion resistance

ROUNDIT® V0 EMI

Transfer Impedance Measurement (Size 13)



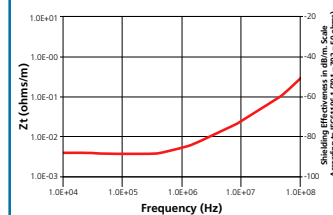
Nickel-plated copper strands are woven to provide high conductivity and ensure EMI shielding



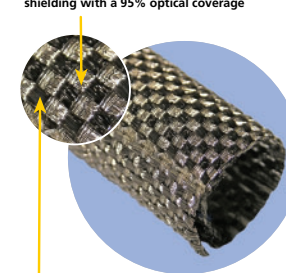
PPS monofilaments ensure a highly flexible assembly

ROUNDIT® EMI FMJ

Transfer Impedance Measurement (Size 13)



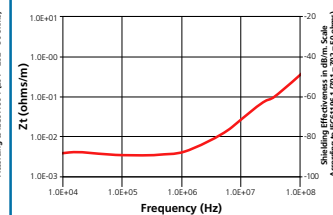
Nickel-plated copper strands are woven to provide high conductivity and insure EMI shielding with a 95% optical coverage



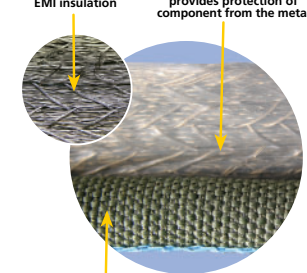
PPS monofilaments ensure aerospace-grade temperature and a highly flexible assembly

ROUNDIT® 2000 NX EMI

Transfer Impedance Measurement (Size 11)



Braided nickel-plated copper wire provides EMI insulation



Optional PTFE inner layer provides protection of component from the metal

Nomex® & PPS construction with oil and water repellent treatment



Product Family	Description	Temperature	Type of Shielding	Construction	Available Sizes
QuietShield®	Noise suppression materials providing strong acoustical insulation <i>(under development)</i>		Acoustic	Various material blends and configurations available including eco-friendly version	Roll goods and die-cut pieces
ReflectShield® / Therm-L-Gard™	Custom multi-layer composite heat shielding system designed to provide excellent protection for components that must survive in high temperature areas; may include secondary processes and attachments to best meet application	Survives extended exposure to 538°C (1000°F) at 25 mm above radiant heat source; actual heat resistant properties are application specific	Thermal	Application specific; may include fiberglass fabric, aluminum foil laminate, pressure sensitive adhesive, non-woven materials	Custom parts may be slit to width and length, or die cut into complex geometric shapes

Shielding Highlights

The shielding family of products offer a custom solution to challenging thermal and NVH (Noise, Vibration and Harshness) environments. Engineers and product development specialists work with you to address your specific application needs. This innovative approach to thermal and acoustic management address the following needs:

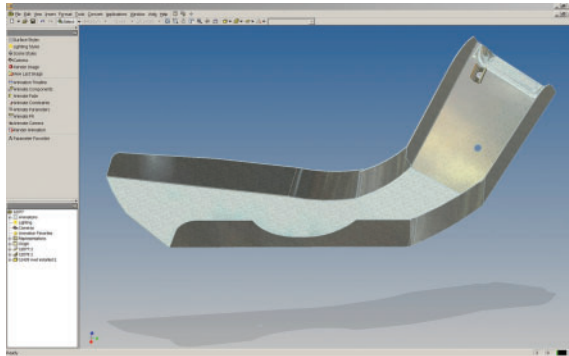
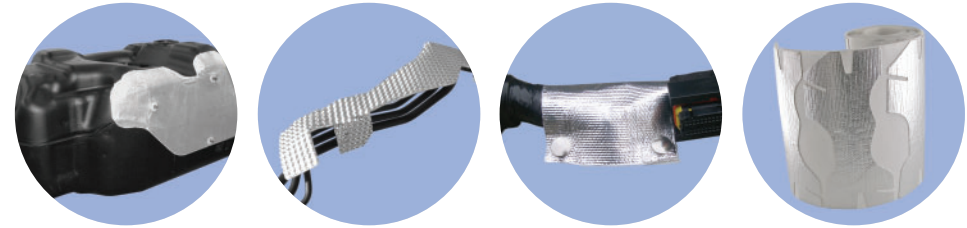
Right material selection: A variety of material combinations may be considered to provide the right level of shielding efficiencies. For ReflectShield, this may include woven fiberglass substrate, non-woven material or closed-cell foam with an aluminum foil laminate. Such material combinations ensure outstanding ability to dissipate surface temperature. For QuietShield, a full range of material blends and configurations delivers the right acoustic solution along with potential weight savings to meet your critical needs.

Innovative design: Our design capabilities allow us to accommodate a variety of geometric shapes that are needed to provide appropriate shielding. Use of pressure sensitive adhesives may be used for the product to be adhered directly to component. Alternatively, mechanical attachment can also be integrated into the design and may include snaps and clips.

Cost-effective: Our unique approach to part design allows for a cost-effective solution to your shielding needs. For example, our ReflectShield approach allows for the reduction of tooling costs and lead times compared to traditional rigid heat shields.

ReflectShield Applications

Applications include engine components, wire harnesses and fuel lines, in a variety of market segments including marine, rail, heavy-duty and industrial transportation.



Your Partner in Development

Thanks to our expertise in CATIA® and SolidWorks®, our trained engineers, can directly open and integrate your drawings into our design system. We can provide detailed simulation of the integrated protection component, thus helping you visualize real-life installation. This collaborative approach saves you time and resources.

QuietShield Applications

This product helps eliminate noise in such areas as engine covers, wheel arches, headliners, door panels and trunk liners.



Advanced Technology Expertise

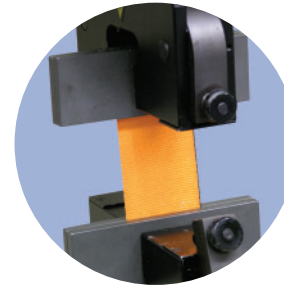
The ITS Group serves as a valuable resource and partner to its customers by providing advanced technology expertise to meet customer needs for today and tomorrow. Our engineering competencies include:



- **Chemical engineering:** coating formulation and compounding
- **Materials engineering:** Flame retardancy, water and fluid resistance, electromagnetic compatibility, conductive materials, mechanical performance (abrasion resistance, cut-through resistance, friction-reduction) and adhesive technology
- **Mechanical engineering:** development of both equipment and processes for coating, forming, embossing, lamination and converting
- **Textile engineering:** fibers, yarns, knitting, braiding, weaving, non-woven

In addition, we offer a broad range of advanced engineering tools designed to further assist our product development efforts, including:

- Computational Fluid Dynamics (CFD)
- Computer Aided Design (CAD)
- Failure mode and effects analysis (DFMEA and PFMEA)
- Finite element analysis (FEA)
- Geometric Dimensioning and Tolerancing (GD&T)
- Rapid prototyping
- Thermal, EMI and Acoustic simulation



We continue to invest in new technology exploration to ensure that we remain on the cutting edge of solution development.

Your Innovative Solutions Partner

Let Federal-Mogul Systems Protection help solve your component protection issues. Contact us today to learn more about our industry specific solutions.

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