

Federal-Mogul Corporation Reduces Exhaust Emissions with Thermflex® 1224 Exhaust Pipe Insulating Sleeve

Federal-Mogul Corporation has developed and introduced an innovative exhaust pipe insulating sleeve, Thermflex® 1224, the latest in its portfolio of environmentally-friendly products aimed at reducing CO₂ emissions.

Thermflex® 1224 is a knitted sleeve developed for high temperature exhaust systems. Constructed with basalt yarns, Thermflex® 1224 can withstand temperatures up to 750° C. The flexible knitted sleeve, when installed on vehicle exhaust pipes, prevents exhaust gases from losing their high temperature as they flow through the exhaust system. The technology enables more complete conversion of gases and particulates, such as CO₂ and unburned carbon, in the catalytic converter, resulting in less environmentally damaging exhaust effluents. The proprietary custom knit sleeve has been launched globally on heavy-duty vehicles, such as fire trucks, ambulances, buses and Class 8 trucks, and is currently being introduced into the light vehicle market.

“Typically, underbody components near the exhaust pipe are affected by heat and previously required additional protection using alternative materials,” said Jan Maiden, Federal-Mogul vice president, sales and engineering, Systems Protection. “The application of Thermflex® 1224 will improve catalytic converter performance and simultaneously reduce the need for shielding, resulting in less engineering, tooling and assembly costs for our global customers.”

Thermflex® 1224 is available in customized designs. Flexible design and simple installation means that the product can be easily positioned to provide exceptional thermal insulation of the exhaust pipe only where needed to protect nearby components. The innovative knit material can expand up to 1.5 times its diameter and accommodate flanges and bends typically used on exhaust system components.

Federal-Mogul’s Systems Protection team is currently working on the next generation of this insulating sleeve to meet future customer needs in different vehicle applications. “Our

commitment to providing innovative leading products and services that help our customers meet their objectives for improved emissions, decreased vehicle weight and reduced vehicle cost is critical to achieving our strategy for sustainable global profitable growth,” said Maiden.