**Unique Freudenberg Material Helps Customers Implement Sustainable Solutions**

**Weinheim (Germany), March 20, 2017 – One of the greatest challenges of the 21st century is the conversion to a resource-conserving, sustainable economy. With this in mind, Freudenberg Sealing Technologies is offering customers its FluoroXprene® family of materials to help contribute to this transformation. Originally developed for use in fuel lines, these materials have the potential for use in new, challenging applications thanks to their outstanding characteristics.**

FluoroXprene was developed to reduce the permeation of fuel vapors through the walls of fuel lines. This permeation makes a notable contribution to a vehicle’s hazardous emissions. But it is often overlooked when considering total emissions. FluoroXprene reduces the escape of fuel vapors through the walls of fuel hoses into the atmosphere, slashing them to a fraction of their usual amounts. And this is not just the case for standard fuels – alternative
plant-based fuels such as E10 and E85 are also securely contained by FluoroXprene materials.

This grade of FluoroXprene also offers a further safety enhancement in fuel systems. The material is electrically conductive and capable of bleeding off an electrical discharge. This characteristic enhances manufacturer’s ability to protect against a static discharge within the fuel system.

For some time, there have been attempts to use fluoro rubber/thermoplastic elastomer (FKM/TPE) materials in the automotive industry. But with FluoroXprene, Freudenberg’s material experts have succeeded in developing a family of materials made of two highly fluorinated materials that are well suited for processing. The high chemical resistance of FKM is combined with the easy process ability of TPE. The result is a series of materials with outstanding characteristics that have potential use in new applications far beyond fuel lines. By changing the proportions of the two components, product characteristics can be adapted to a wide variety of complex requirement profiles. Thanks to its high process ability, these unique materials can be used in an innovative manufacturing process that reduces Freudenberg Sealing Technologies’ sustainability footprint as well. This process combines proven injection molding technology with a tool design consisting of single cavities. The result: It conserves materials and energy while reducing the production of scrap. FluoroXprene is thus a good example of how companies can conserve resources in their manufacturing operations while increasing sustainability and efficiency on the customer side as well.

More information about the material competencies of Freudenberg Sealing Technologies is available at <https://www.fst.com/products/materials>

***Image:*** *FST\_FluoroxpreneAutomotive.jpg*

**About Freudenberg Sealing Technologies**

As the leading specialist in sealing applications and their markets, Freudenberg Sealing Technologies is a supplier as well as a development and service partner serving customers in a wide variety of sectors including the automotive industry, civil aviation, mechanical engineering, shipbuilding, the food and pharmaceuticals industries, and agricultural and construction machinery. In 2016, Freudenberg Sealing Technologies generated sales of more than €2.3 billion and employed approximately 15,000 people. More information at [www.fst.com](http://www.fst.com)

The company is part to the global Freudenberg Group which, with its Business Areas Seals and Vibration Control Technology, Nonwovens and Filtration, Household Products as well as Specialties and Others. In 2016, the Group generated sales of more than
€8.6 billion in and employed approximately 48,000 associates in around 60 countries. More information is available at [www.freudenberg.com](http://www.freudenberg.com).

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