

GSE Environmental Awarded Patent for High Temperature Geomembrane

HOUSTON, TX – November 9, 2017 –GSE Environmental is pleased to announce the issuance of US Patent No. 9,518,176 B2 for its High Temperature Geomembrane Liners and Master Batch Compositions. GSE High Temperature Liner is our newest innovative geomembrane, specially engineered to withstand prolonged exposure to temperatures up to 100°C (212°F).

When the temperature exceeds 60°C, property loss, oxidation, and UV degradation are accelerated in standard polyethylene geomembranes, which can reduce strength properties. GSE's team of engineers collaborated with resin producers to develop innovative HDPE resin formulations for use in high temperature applications. When used in conjunction with GSE's proprietary high temperature stabilization formula, the result is a liner that delivers the same durability and chemical resistance as any GSE geomembrane and will retain these properties when exposed to sustained temperatures up to 100°C.

"The High Temperature Liner continues GSE's history of developing and improving products in response to industry needs and through collaboration with our customers. It is through innovative new product development such as this, that GSE continues to be known as a pioneer in geosynthetics," said Ed Zimmel, Vice President, Engineering.

GSE's High Temperature Geomembrane has been used in numerous applications and industries around the world. For more information about High Temperature Liner and GSE's full line of products and services, visit www.gseworld.com.

About GSE Environmental

GSE is a global manufacturer and marketer of geosynthetic lining solutions, products and services used in the containment and management of solids, liquids, and gases for organizations engaged in waste management, mining, water, wastewater, and aquaculture.

GSE has a long history of manufacturing quality geosynthetic lining systems and developing innovative products. The Company's principal products are polyethylene-based geomembranes, geonets, geocomposites, geosynthetic clay liners, concrete protection liners and vertical barriers. GSE manufactures products primarily to line or cap hazardous and non-hazardous waste landfills; contain



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materials generated in certain mining processes; and contain water, liquid waste and industrial products in ponds, tanks, reservoirs, sewers, and canals. Headquartered in Houston, Texas, USA, GSE maintains sales offices throughout the world and manufacturing facilities in the United States, Germany, Thailand, China and Egypt.

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