Mining

GSE knows what’s at stake when it comes to environmental protection and preventing solution loss in today’s mining operations. That’s why we manufacture the most durable, long-lasting geosynthetic containment systems designed specifically for mining applications. Our geosynthetics install faster, perform better, and are more cost-effective than using natural materials such as stone, gravel or compacted clay.

HEAP LEACH RECOVERY

With millions of square meters installed at mining operations around the world, GSE’s geomembrane lining systems are proven to be the most durable and cost-effective containment solution in heap leach pads. GSE geomembranes exhibit superior resistance to punctures, stress cracking and harsh chemicals. When the application requires placement on steep slopes, GSE Textured sheet increases the frictional resistance and keeps the liner in place. GSE White Geomembrane reflects the sunlight and reduces liner temperature which results in fewer wrinkles.

Sometimes damage occurs during installation or while placing overliner material on the pad. GSE Leak Location Liner installed using GSE IsoWedge technology allows electrical liner integrity (ELI) testing on both exposed and covered applications, on slopes, across seams, and over wrinkles to find the leaks quickly before serious damage can occur or large amounts of solution are lost.
When temperatures become elevated, GSE High Temperature Geomembrane is formulated to maintain its physical properties in application with sustained temperatures of up to 100°C (212°F).

To keep the leachate flowing freely to the collection ponds, install GSE MineDrain Geocomposite. This innovative high-flow, high-strength drainage system performs better than natural gravel, withstands high loads, installs quickly and protects the geomembrane from punctures.

**TAILINGS STORAGE**
Lining tailings ponds with GSE High Performance Geomembranes creates a barrier and prevents the release of mining refuse into the environment. GSE MineDrain, in this application, acts as a layer of protection for the geomembrane, reducing tears and leaks.

**CLOSURES AND CAPPING**
When disposing of tailings, acid-producing waste rock, and spent heaps, properly capping the waste prevents oxidation and the release of harmful substances. GSE BentoLiner GCL combines with a GSE geomembrane is the most durable, reliable composite cover system available on the market today.

**SAFETY AND STABILITY**
GSE Geogrids are used on the roofs and walls of underground mines to prevent debris from falling on workers. In addition, they provide a quick, long-term solution to strengthening roads and sites built on unstable soils.

**ENGINEERING SUPPORT**
The GSE Engineering Support Staff is comprised of multidisciplinary product professionals to support you across a range of project requirements. This includes knowledge in geomembrane, geosynthetic clay liners, geonet, geocomposite, nonwoven geotextile and concrete protection products and application solutions. Rely on our technical staff to help you solve your project issues.

**CUSTOM FABRICATION**
The GSE Custom Fabrication Group builds products to your exact specifications. We have extensive experience in prefabricated polyethylene products and components. A few examples of our custom fabricated products are Aqua Tanks, Quick Containment, concrete protection liners, boots, sumps, pads, pipes, daily covers, temporary containment, containment boom and other products to fulfill your fabrication needs.

**INSTALLER NETWORK**
The GSE Installer Network leads the industry with the most experienced, large, and flexible crews available around the world to meet your installation requirements. Each installer is equipped with state-of-the-art welding and testing equipment to ensure a successful installation. Selecting a qualified installer with the right product knowledge is critical to your success. Let GSE connect you to the right installer to handle your installation project of any size from start to finish.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We’ve built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.

For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.