Tensar® Mining Systems
Our mining systems meet the unique challenges faced by Tensar® Mining Grids, Tensar UX Rib Straps, and Tensar® Knitted Mining Screens. These reinforcement products provide the strength and stiffness of 4 in. gauge welded wire products with the benefits of a lightweight polymer product. And when compared with 4 in. 4 in. gauge wire grids, mats have been 50% lighter and 35% lighter at 4 in. gauge, Tensar mats have achieved similar service lives to their much heavier counterparts. Tensar mats have an average reduction in the occurrence of rib failures by 50% at 4 in. gauge, Tensar Mats meet MSHA CFR 30, Part 10a, in hard rock where CFR 10, Part 7 standards are not required. Tensar UX3326 Rock Mats may be used for roof control.

Tensar UX Rib Straps
When securing ribs in soft minerals or hard rock, Tensar UX3326 Rib Mats and UX3326 Roof Mats are the ideal complement to Tensar Mining Grid and Minex Rock Mesh. Strong, lightweight and corrosion-resistant, Tensar UX Rib Straps provide a superior alternative to steel mesh. When combined with Tensar Mining Grid and Minex Rock Mesh, rib straps greatly increase the bolt pull-through strength. With their greater surface area coverage, mats have been NIOSH-tested at 87% of 8-gauge welded wire panels with the benefits of a lightweight polymer product. And when compared with 4 in. 4 in. gauge wire grids, mats have been 50% lighter and 35% lighter at 4 in. gauge, Tensar mats have achieved similar service lives to their much heavier counterparts. Tensar mats have an average reduction in the occurrence of rib failures by 50% at 4 in. gauge, Tensar Mats meet MSHA CFR 30, Part 10a.

Waste Management
Dewatering and containment of mining waste requires a special solution, much like Tensar Corrugated Trenches provide an economical and environmentally friendly alternative to traditional methods. Strong and durable, Tensar Corrugated Trenches are efficient, lightweight and cost effective. They are available in a number of shapes and sizes to accommodate a wide variety of applications and can be customized to meet your individual needs. For more information, please call 800-TENSAR-1 or visit www.tensarcorp.com.

Solutions for Underground Mining and Tunneling Construction
A leader in innovative and cost-effective alternatives to traditional construction methods, Tensar International Corporation (Tensar) offers a number of solutions to support the unique requirements of mining tunneling and construction. Tensar Mining Systems include a family of polymer grid products designed to enhance value, maximize return and reduce overall project costs. These reinforcement products include durable Tensar® Mining Grids, Tensar UX Mash Mats and Tensar® Rock Mesh. Strong yet lightweight, Tensar Mining Grids are ideal for pillar wrapping, rib controls and highwall screen installations. Tensar UX Mash Mats help reinforce and reduce the overall cost of flexible mining rib applications. Both B6 products comply with MSHA CFR 30, Part 10a for permanent applications.

Tensar mining control systems are designed to enhance value, maximize return and reduce overall costs for your mining projects.

Underground Applications
Tensar® Mining Systems are designed to enhance value, maximize return and reduce overall costs for your mining projects.
Tensar® Mining Systems

Our mining systems meet the unique requirements of a number of polymers and grid products designed to enhance value, maximize return and reduce overall project costs.

**UNDERGROUND APPLICATIONS**

- **Tensar UX® Rib Straps**
- **Tensar Mining Grids**
- **Minex™ Rock Mesh**

These reinforcement products include durable Tensar® Mining Grids, Tensar Roof Mats and Minex™ Rock Mesh. Strong yet lightweight, Tensar Mining Grids are ideal for pillar wrapping and roof control and high-tensile wire grids. Tensar UX® Rib Straps are the ideal complement to Tensar Mining Grids and Minex™ Rock Mesh. Tensar Roof Mats provide effective rib and roof control and high-tensile wire mats. All three polymer products are corrosion- and fire-resistant, designed and manufactured for easy installation.

**Road Control**

- **Tensar UX® UX3326 Roof Mats**
- **Tensar Mining Grids**

Tensar UX® UX3326 Roof Mats provide the strength and stiffness of 8-gauge welded wire panels with the benefits of a lightweight polymer product. And when compared with a 4-8 gauge wire product, mats have been sighted tested at 100% of the design load. The mats have a very low deflection under load and do not depress or allow lateral, in-plane movement of the underlying mesh. Tensar Mining Grids meet NIOSH CFR 19, Part 7, Section 1 standard for permanent applications.

**Longwall Screening**

- **Tensar Geogrids**

Tensar Geogrids are the standard on the most demanding applications. When securing ribs in soft minerals or hard rock, Tensar UX3326 Roof Mats provide the strength and stiffness of 8-gauge welded wire panels with the benefits of a lightweight polymer product. And when compared with a 4-8 gauge wire product, mats have been sighted tested at 100% of the design load. The mats have a very low deflection under load and do not depress or allow lateral, in-plane movement of the underlying mesh.

**Rock Mesh**

- **Minex™ Rock Mesh**

Minex™ Rock Mesh may be used for roof control. Known throughout the industry as the leading longwall screen technology, Rock Mesh rib straps have natural load bearing capacity from 12 to 6,000 tons, enough to support a mesh load of 1,000,000 pounds.

**Highway Screens**

- **Tensar UX® UX3326 Roof Mats**

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**Road Reinforcement**

- **Tensar Geogrids**

Highway Screws and Rib Mats can be used to control mining failure at mining areas. Since large sections of rock cause pre- and take to the top of the cut for installation, they are no easier and install at twice the speed. Strong, lightweight and corrosion-resistant, mining grids provide a superior alternative to steel mesh.

**Waste Disposal**

- **Triton® Geotextile Tubes**

Dewatering and containment of mining waste requires unique solutions. Triton® Geotextile Tubes provide a special solution of its own. Triton® Geotextile Tubes are corrosion-resistant, enabling the use of locally available fill to lower construction costs.

**Road Reinforcement**

- **Tensar Geogrids**

For use with flat-top and road core applications, the Spectra® Roadway Improvement System, a soil-stabilization alternative, enables the use of flexible pavements as well as unpaved haul and temporary roads.

**Grade Separation**

- **Tensar Geogrids**

For grade separation and earth retention, we offer a range of geogrids, reinforced wall and slope systems. Tensar® Geogrids are corrosion-resistant, enabling the use of locally available fill to lower construction costs. In addition, they can be used for a range of geogrid-reinforced, wall and slope systems. Tensar® Geogrids offer a special solution of its own. Triton® Geotextile Tubes provide a special solution of its own. Triton® Geotextile Tubes are corrosion-resistant, enabling the use of locally available fill to lower construction costs.

**Geotextile Tubes**

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Triton® Geotextile Tubes can contain even fine-grained materials. Their unique dewatering and containment of mining waste requires unique solutions. Triton® Geotextile Tubes provide a special solution of its own. Triton® Geotextile Tubes are corrosion-resistant, enabling the use of locally available fill to lower construction costs.

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These reinforcement products include durable Tensar® Mining Grids, Tensar Roof Mats and Minex™ Rock Mesh. Strong yet lightweight, Tensar mining grids are ideal for stabilizing rib controls and high-tunnel roof applications. Tensar Roof Mats help stabilize ribs and reduce cycle times. And with more than 25 years of performance in mining applications, all Tensar products comply with NIOSH CFR 29, Part 171 requirements.

UNDERGROUND APPLICATIONS
Tensar® UX3326 Roof Mats provide the strength and stiffness of 6-gauge welded wire panels with the benefits of a lightweight polymer product. And when compared at a 6-in. gauge wire product, UX Mats have been tested 10 times at high of 87% of the tensile force of that wire. Tensar UX Mats have been shown to reduce the occurrence of rib failure, tunneling failures, and roof caving.

Tensar® UX3326 Roof Mats meet MSHA CFR 29, Part 171. In hard rock where CFR 29, Part 171 standards are not required, Minex Rock Mesh may be used for roof control.

Longwall Screen
TriAx Geogrid, a unique welding technology using Tensar® TriAx® Geogrid, is the solution. A layer of Tensar® TriAx® Geogrid, the geogrid, features 150 ton load surface applications. Our geogrid-reinforced, wall and slope systems. Tensar® Geotextile Tubes provide an economical, environmentally friendly alternative to traditional technologies. Strong and durable, Triton® Geotextile Tubes offer a special solution of its own. Triton® Geotextile Tubes are the ideal complement to Tensar® Mining Grid and Minex™ Rock Mesh. Strong, lightweight and corrosion-resistant, similar to Tensar mining grids, they typically outperform conventional tube systems.

TriAx Geogrid
When reinforcement needs are above ground, rely on Tensar® Roadway Improvement System, grade separation and foundation improvement systems.

ABOVE GROUND APPLICATIONS
Road Reinforcement
We are happy to supply you with additional information on our geogrid products, installation guidelines, system specification, design details, precut geogrid solutions and much more. Call 800-555-TENS. info@tensarcorp.com or visit www.tensarcorp.com

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A layer of Tensar® TriAx® Geogrid, the geogrid, features 150 ton load surface applications. Our geogrid-reinforced, wall and slope systems. Tensar® Geotextile Tubes provide an economical, environmentally friendly alternative to traditional technologies. Strong and durable, Triton® Geotextile Tubes offer a special solution of its own. Triton® Geotextile Tubes are the ideal complement to Tensar® Mining Grid and Minex™ Rock Mesh. Strong, lightweight and corrosion-resistant, similar to Tensar mining grids, they typically outperform conventional tube systems.

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MINING UNDERGROUND AND SURFACE SYSTEMS

SYSTEM OVERVIEW

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MINING UNDERGROUND AND SURFACE SYSTEMS

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