

MINING SOLUTIONS

Towing & Recovery / Lifting / Winching



samson
THE STRONGEST NAME IN ROPE



Tie in to the superior performance of Samson synthetic rope for mining.

Mines rely on heavy equipment to maximize productivity. When vehicles get stuck, it costs time and money. Wire and chain towlines used to free vehicles are difficult to work with because of their weight and inflexibility; and they can cause serious injury due to recoil if they break. Samson's synthetic ropes offer a superior solution, both in terms of efficiency and safety.

Samson synthetic ropes are equal in strength to wire and chain, but at a fraction of the weight. This revolutionary strength-to-weight ratio radically reduces manpower requirements, equipment demands, and hazards. As a result, Samson synthetics are far easier to manage, and significantly safer to deploy for:

- Material Handling Winch Lines
- Belt Pull-In Ropes
- Recovery and Towing Assemblies
- Body Tray Slings, Truck Bed Tie-Downs
- General Wire Rope Replacement

SAFER

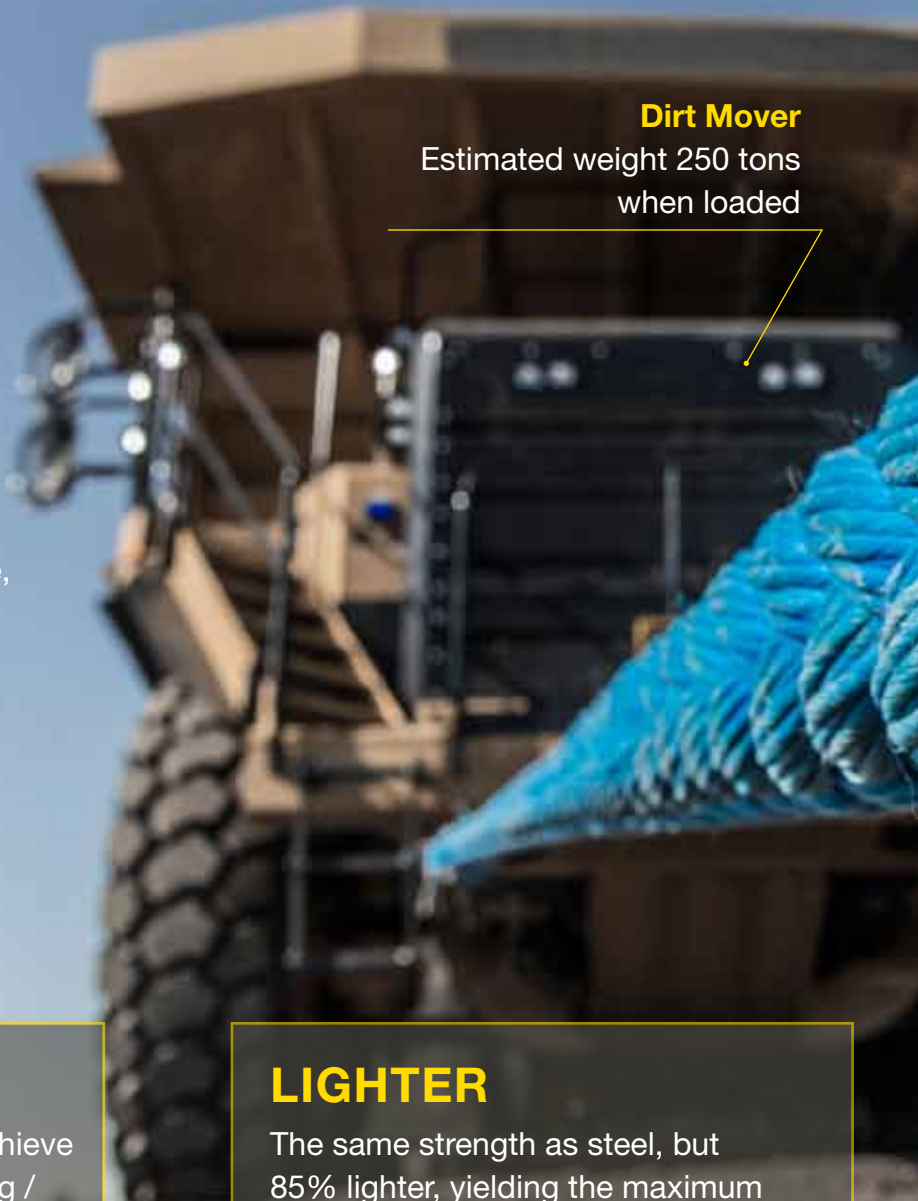
With lighter synthetic rope you achieve
Safer handling / Reduced sparking /
Reduced injury due to recoil / No fish
hooks / No kinking in lines

LIGHTER

The same strength as steel, but
85% lighter, yielding the maximum
strength-to-weight ratio.

Dirt Mover

Estimated weight 250 tons
when loaded





AmSteel®-Blue

35 ft long / 2.5 in diameter / 85 lbs

10.5 m / 63.5 mm / 38.5 kg

Dyneema® HMPE Fiber

Custom Rope Solutions

for any job requirement or purpose.

FASTER

Our lightweight rope construction and ease of handling means faster change-outs and less downtime.

EASIER

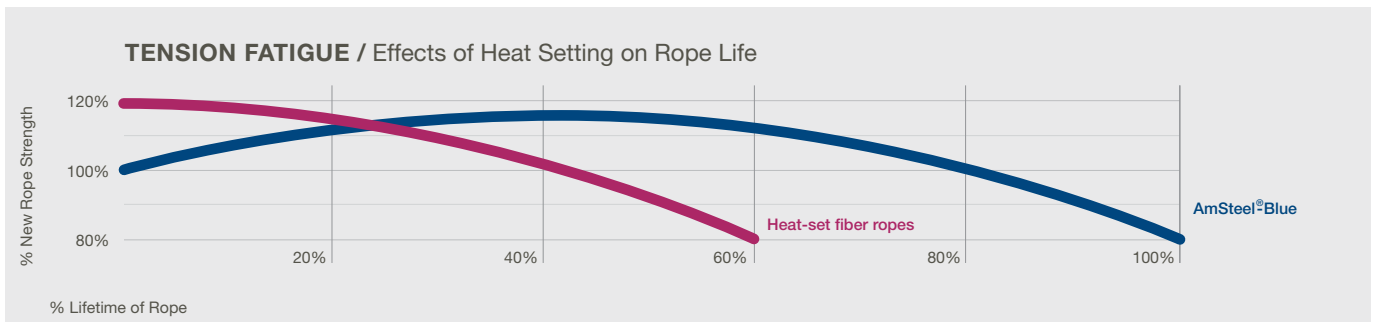
Increased operational efficiency /
Reduced line change-outs /
Prolonged service life / Strong
distribution network

Proven to Outlast Wire and Chain

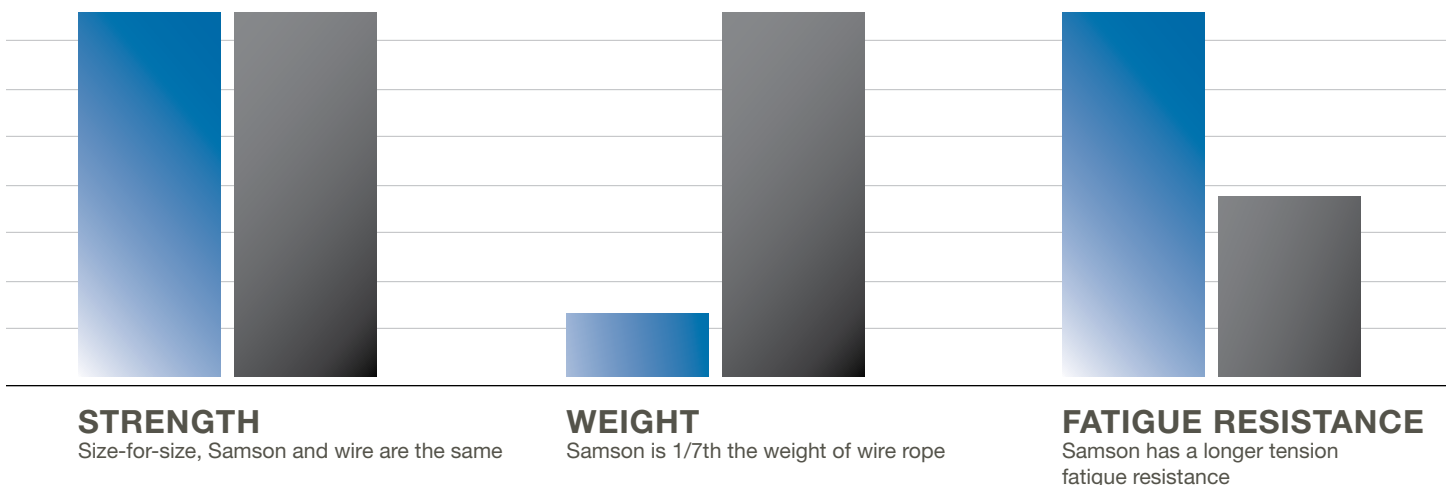
In mines that have switched to Samson high-performance synthetics, users report that properly utilized ropes last significantly longer than the wire they replace, are much safer to handle, and easier to maintain. Change-out operations are much quicker, and the absence of metal-on-metal abrasion significantly extends equipment life.

AmSteel®Blue Stays Stronger than Other Synthetics

AmSteel®Blue is proven to have a longer fatigue lifespan than the synthetics known as heat-set high modulus polyethylene (HMPE) fiber. Heat-set fibers progressively lose strength as the loading cycles increase, shortening the expected life of the rope (number of cycles to failure). **The rope may achieve 20% greater initial strength, but will only have 60% of its fatigue life remaining.** While AmSteel®Blue, because of its unique construction, maintains greater strength throughout.



COMPARISON Samson high-performance synthetics vs wire rope



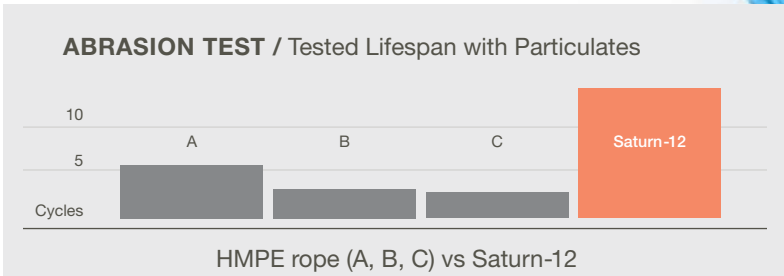
Same strength as wire and chain, yet 85% lighter, to increase safety and productivity

- Increased efficiency of manpower
- Faster change-outs for less downtime
- Comparable elastic elongation to wire
- Easy inspection and field splicing
- Virtually corrosion-proof
- Low maintenance
- Increased Safety

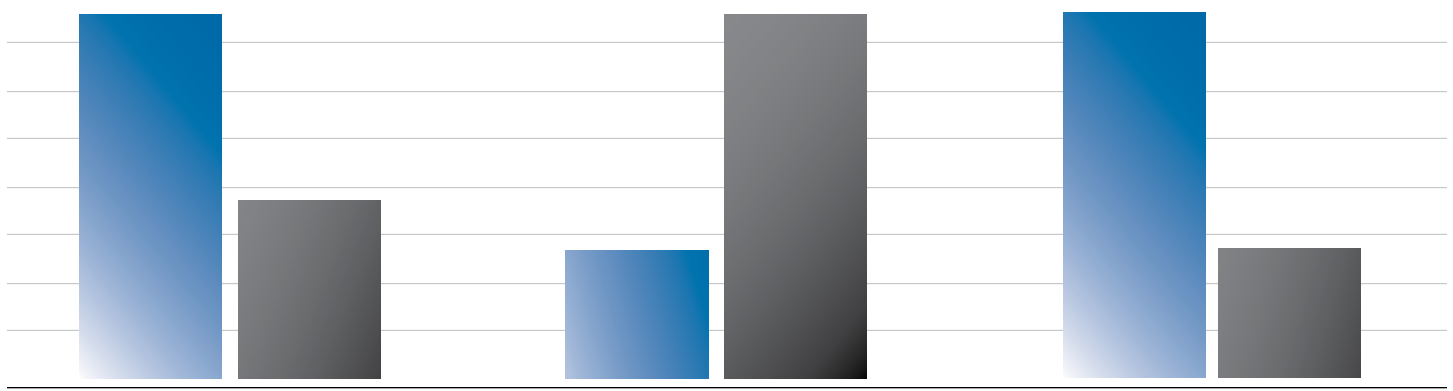
Reduced recoil risk – torque-free design
Less back stress – from lighter weight
Greater hand safety – no broken strands
Reduced sparking – less metal abrasion

■ **Saturn-12**

+ Has an advanced coating that reduces abrasion and winch friction.



Test results for samples at a fixed load show Saturn-12 has more than five times the useful service life under abrasive conditions.

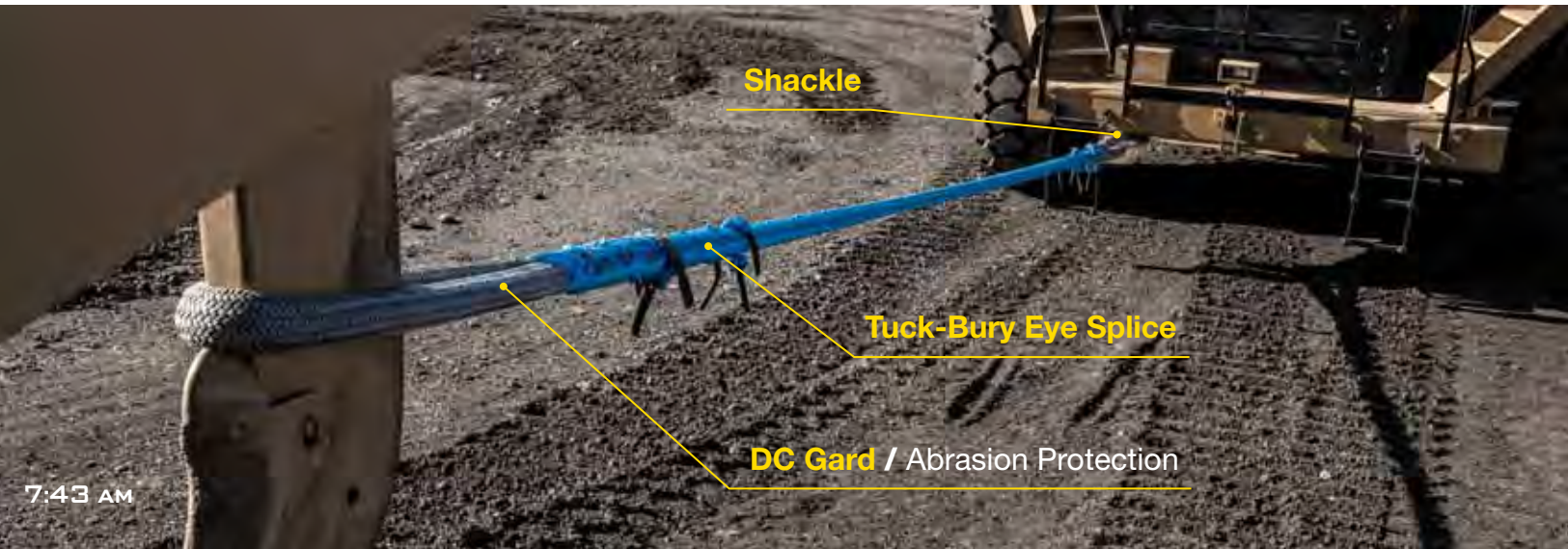
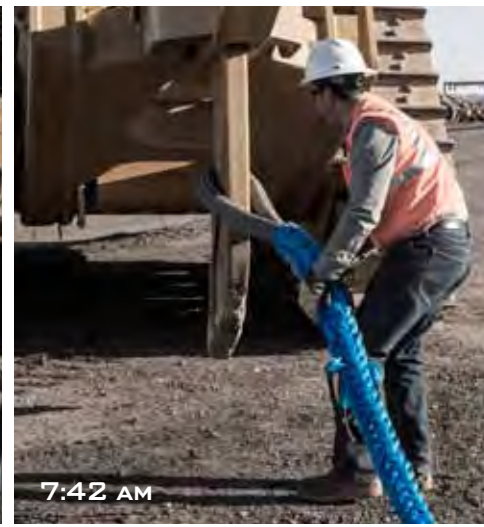


CAPITAL COSTS
Initial cost of wire rope is less

OPERATIONAL COSTS
Samson offers faster change-out, less injury and reduced maintenance costs

SERVICE LIFE
Samson lasts significantly longer than wire rope when used properly

Samson Dramatically Reduces Change-Out Times



Gain the certainty of sound guidance

What are your operational priorities? Which performance and value criteria must our rope meet to make sound business sense to you? To accurately assess your needs, our MSHA-certified* representatives conduct on-site mine visits. Working in tandem with our distributors, we take the time to thoroughly support you in effectively selecting and deploying the right working-line solutions. This makes your transition away from conventional wire and chain a smooth and seamless one.

As a Samson client, you're backed by the complete Samson engineering and service teams. We support you every step of the way, from product selection and installation, to on-site training, maintenance, and replacement. This ensures that you gain superior performance, not just in the mine, but on your bottom line as well.

Expertise in innovation

Samson has already led synthetic rope innovation in aerospace, offshore drilling, tanker mooring, and other industries. Now, as the mining industry embraces the benefits of synthetic rope solutions, Samson is the ideal partner to guide you into this new era. We've revolutionized new rope technologies for more than 130 years – we're here to support you for the long haul.

Mine the bottom-line benefits of our superior synthetic rope solutions. Contact a Samson technical specialist today.

DC Gard / High Performance Abrasion Protection Product Code 706



Abrasion protection can be installed on rope assemblies in places where the wear commonly occurs. Particularly useful if wear consistently occurs in the same location.

- Light, flexible, and it floats
- Can be removed for rope inspection
- Cut resistant
- Superior durability
- Made with Dyneema®
- Patent pending



Samson Advantage / Where People and Technology Make the Difference

In the mining industry, Samson sales and engineering team and our distribution network are there for more than just taking orders. This team works with you to provide proper product selection for unique applications, full service fabrication, on-site training, rope inspection and maintenance, proper installation, and a full technical resource library. It embodies the promise that our customers have come to expect; exceptional people providing an exceptional experience while delivering an exceptional product. We call it **The Samson Advantage**. Our customers call it peace of mind.

The Samson Advantage is built upon five key elements:

- Innovative Technology
- Superior Products
- Industry-Leading Service
- In-House Manufacturing
- Global Experience



2090 Thornton Street, Ferndale, WA 98248
P +1 800.227.7673 or +1 360.384.4669 F +1 360.384.0572

SamsonRope.com

REGISTERED TRADEMARK NOTICES

AmSteel® is a registered trademark of Samson Rope Technologies

Dyneema® is a registered trademark of Royal DSM N.V.

Dyneema® is DSM's high-performance polyethylene product



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