



VITALIFE®
WIRE ROPE LUBRICANT



Imperial / Metric

Vitalife® Wire Rope Lubricants Extend Wire Rope Service Life

Wire Rope is a "machine"

A machine is defined as "an apparatus consisting of interrelated parts, both moving and stationary, used in the performance of a function or some kind of work."

Lubricants are the lifeline for all machines, whether simple or complex.

Wire ropes are machines which consist of moving parts (the strands) that, during use, continuously rub against each other, causing friction. Friction causes strand wear and heat. Heat causes oxidation and higher internal core temperatures resulting in accelerated rust and potential premature rope failure.

Like other machine manufacturers, wire rope manufacturers recommend maintenance programs for wire rope which includes inspection and lubrication.

Lubrication is the best way to maintain your wire rope.

The Old Way

Asphaltic, thick, grease-based protective products that only coat the external surface of the ropes are most common. The most important portion of the rope, the "core", does not get lubricated. Expensive application systems are sometimes used in an attempt to "force" these grease-based products into the core of the rope. In addition, grease-based coatings tend to allow airborne dirt particles to adhere to the rope. And finally, thick coatings can also hide dangerous rope damage during visual inspections.

The Vitalife® Way

American Oil and Supply International's (AOSI) theory is "GET INTO THE HEART OF THE ROPE — GET TO THE CORE". After years of applying this message, and through our extensive research into wire rope lubricants, AOSI and The Crosby Group, have made available the finest wire rope lubricants available today

Time-tested Brand

The Vitalife® brand of wire rope lubricants have been utilized since the late 1890's, and is the original standard recognized for its dependability.

Products of Uncompromising Quality

Quality products begin with quality ingredients, standards, and processes.

Base oil selection

With lubricants, the foundation is the key, and Vitalife® begins with a high quality base oil.

Additives

AOSI uses only top-quality additives (not present in all lubricants) for its Vitalife® product line. AOSI selects the optimum additive package for the specific Vitalife® product family.

Extensive research and experience allow AOSI manufacturing facilities to provide superior quality control and traceability. They utilize state-of-the-art manufacturing processes to produce lubricants that perform well under a wide variety of environments and applications. AOSI's manufacturing facilities are ISO 9001/2000-certified.

Technical Support Second to None

Crosby provides the highest level of technical support available. Our well trained, and fully equipped Technical Support Team is available to answer any question you have.



Available for a wide variety of applications

Vitalife® products are provided in a variety of container sizes. From a 12 oz. (354.9 ml.) spray can to a 275 gallon (1,041 liter) tote, there is a container suitable for your particular application.

Typical applications

- Raising and lowering the boom on power shovels
- Cranes, Port Lifting Equipment, Drag Lines, Derricks
- Tramways
- Coal Mines
- Ski Lifts
- Suspension bridges, guy wires on Antennas and Standing Ropes
- Elevators (mining and buildings)
- Rudders on boats, Fishing Leaders
- Aircraft cables
- Barges, suspension barges
- Tow Trucks
- Factories, Steel Mills, Industrial Plants, Maintenance Facilities
- Automotive, Heavy Duty and Industrial Equipment Builders (OEM manufacturing facilities)

General Vitalife® Benefits

The Vitalife® family of wire rope lubricant products provide many important features required to extend wire rope life (controlled tests & historical records prove the extended life).

- Penetrates to the core
- Dry to the touch; does not attract dust and airborne particles
- Allows easy visual inspection of the rope
- Cleans the wire rope during application
- Oxidation control
- Creeps and wets to the core
- Coats each individual strand
- Water displacement properties
- Rust and corrosion protection
- High polarity of product
- Self-healing
- No expensive, cumbersome applicators are required to lubricate all the way to the core of the rope.



VITALIFE[®] 400

WIRE ROPE LUBRICANT

Premier Wire Rope Lubricant in the Industry.



Penetrates to the core of the wire rope and lubricates every strand.

Vitalife[®] 400 and BIO-LUBE products provide these benefits:

- Inner strand preservation and lubricity.
- Allows for visual inspection of rope.
- Reduces the friction between the strands of the wire rope.
- Extends rope life.

| DIAMETER OF WIRE ROPE | Vitalife [®] 400 or Vitalife [®] BIO-LUBE (PER 1,000 FT.) (PER 305 m) | DIAMETER OF WIRE ROPE | Vitalife [®] 400 or Vitalife [®] BIO-LUBE (PER 1,000 FT.) (PER 305 m) |
|------------------------|---|--------------------------|---|
| 1/2 (in) 12.7 (mm) | 0.15 Gallon 0.57 (l) | 1-1/8 (in) 28.5 (mm) | 0.55 Gallon 2.082 (l) |
| 5/8 (in) 15.87 (mm) | 0.20 Gallon 0.75 (l) | 1-1/4 (in) 31.75 (mm) | 0.60 Gallon 2.27 (l) |
| 3/4 (in) 19.05 (mm) | 0.30 Gallon 1.14 (l) | 1-3/8 (in) 34.9 (mm) | 0.70 Gallon 2.65 (l) |
| 7/8 (in) 22.22 (mm) | 0.40 Gallon 1.51 (l) | 1-1/2 (in) 38.1 (mm) | 0.75 Gallon 2.83 (l) |
| 1 (in) 25.4 (mm) | 0.45 Gallon 1.70 (l) | 2 (in) 50.8 (mm) | 0.90 Gallon 3.40 (l) |

- Adheres to surface of strands forming an outer film, providing excellent corrosive protection.
- Non-tacky (will not attract dust)
- Available in 12 oz. (354.9 ml) spray cans, 5 gallon (18.9 liters) pails and 55 gallon (208.2 liters) drums.



- Non-Toxic; produced from the highest quality biodegradable base fluids.

Perfect for applications such as bridges, cranes, draglines and mining.

NEW

Vitalife[®] Spray Applicators

The Vitalife[®] VSP spray applicators are designed and built to make application of Vitalife[®] products easier and more efficient. The Vitalife[®] penetrating lubricant is perfect for all wire rope applications, including:

- Wire ropes on drums
- Slings
- Loose rigging gear
- Running ropes
- Boom pendant lines

Applicator Features

- Vitalife[®] spray applicators are designed and manufactured to work in the rugged field conditions of the construction industry.
- All applicator seals are specially designed to work with Vitalife[®] 400 and BIO-LUBE products.
- Each applicator comes complete with various spray nozzles designed for specific applications.
- Replacement nozzle kits available

Three Types of VSP Applicators Available



Upright Model
3.5 gallon/13.2 Liter

Backpack Model
4 gallon/15 Liter

Hand Held Model
1.5 liters

Performance to the Extreme Longer Life. Better Protection.

Unlike most lubricants that stay on the external portion of the wire rope and are greasy, Vitalife® penetrates to the core of the wire rope.

- Provides inner strand preservation to extend rope life
- Allows for visual inspection of rope, reducing down time
- Won't harm rubber, neoprene sheave liners or bull rings
- Non-staining formula adheres to surface without drop off
- Sizes available: Pail: (5 gallon/18.9 liters)

Drum: (55 gallon/208 liters)
Tote: (275 gallon/1041 liters)



Developed exclusively for
ski lifts and tramways

VITALIFE® 500
WIRE ROPE LUBRICANT



VITALIFE® 600
ELEVATOR CABLE LUBRICANT

Developed Exclusively for Re-lubrication
and Maintenance of Elevator Cables
Protects Against Rust, Corrosion and Oxidation

Vitalife® 600 is a light bodied elevator cable lubricant designed to prevent slippage. It creates a self-healing surface film and displaces water, bringing it to the surface where it is detected and able to be removed.

Product Benefits

- Light bodied, colorless and odorless
- Formulated with "slippage" in mind
- Vitalife® 600 aids the stopping action of an elevator car by breaking the surface lubrication as the brakes are applied.
- When the car is in motion, the polarity of the lubricant promotes a self healing effect to the surface film of the lubricant.
- Easily penetrates to the core of the cable
- Offers maximum corrosion and oxidation protection

Product Applications

- Use on vertical and horizontal running wire ropes
- Excellent for installations where the control of slippage and or moisture detection is important
- May be applied to wire rope by brush, swab, drip, spray, wick applicators, automatic spray or drip systems and pressure lubricators



Vitalife® Wire Rope Lubricant Comparison Chart

| | Vitalife® 400 | Vitalife® BIO-LUBE | Vitalife® 500 | Vitalife® 600 |
|--------------------------------------|---|--|--|--|
| Operating temp. Range | -50° to 300°F -46° to 148°C | -32° to 550°F -35° to 287°C | -18° to 490°F -27° to 254°C | -60° to 300°F -51° to 148°C |
| Typical Use(s) | General purpose; bridges, tramways, cableways, cranes, escalators, derricks, masts, hoist ropes, draglines, conveyors, material handling equipment. | General purpose; environmentally friendly. Same uses as Vitalife 400® product. | Ski-lift ropes; other installations where natural or synthetic rubbers are used in bullrings or sheave liners. | Elevator wire rope cables |
| Odorless | N | N | N | Y |
| Color | Clear | Clear | Clear | Clear |
| Packaging | 12 oz. cans 354.9 (ml) cans 5 gallon pails 18.9 (l) pails 55 gallon drums 208.2 (l) drums 275 gallon tote 1,041(l) tote | 12 oz. cans 354.9 (ml) cans 5 gallon pails 18.9 (l) pails 55 gallon drums 208.2 (l) drums 275 gallon tote 1,041(l) tote | 5 gallon pails 18.9 (l) pails 55 gallon drums 208.2 (l) drums 275 gallon tote 1,041(l) tote | 1 Quart 0.9464 (l) 1 Gallon 3.785 (l) 55 gallon drums 208.2 (l) drums 1,041(l) tote 275 gallon tote |
| Special Order | N | N | Y | Y |
| MSDS available | Y | Y | Y | Y |
| Made in USA | Y | Y | Y | Y |
| Creeps to core of rope | Y | Y | Y | Y |
| Self healing surface film | Y | Y | Y | Y |
| Displaces water | Y | Y | Y | Y |
| Biodegradable | N | Y | N | N |
| Extends wire rope life | Y | Y | Y | Y |
| Corrosion protection | Y | Y | Y | Y |
| Rust protection | Y | Y | Y | Y |
| Pressure application required | N | N | N | N |
| Industries served | Surface/underground mining, bridge construction and maintenance, marine, ports, construction, gas petroleum | Surface/underground mining, bridge construction and maintenance, marine, ports, construction, gas petroleum | Ski lift industry, tramway ropes | Elevator maintenance companies, both major and independent |



The History of Vitalife® and American Oil Since 1895®

The Vitalife® product has a storied past that dates back to a historic suspension bridge: The Brooklyn Bridge (New York City). J.A. Roebling Company of Trenton, NJ supplied all the wire rope that was used to build the Brooklyn Bridge in the late 1890's. AOSI and Roebling co-developed a lubricant designed to protect the cables of the bridge, and because of this relationship, a new company was born: The Wire Rope Lubricating Company of America.

In the 1940's American Oil and Supply acquired The Wire Rope Lubricating Company of America, and the Vitalife® brand of wire rope lubricants. Since then AOSI has taken the original technology and application know how and has improved on the technology, developing the most technically sophisticated wire rope lubricants in the world.

In 2005, Crosby entered into an agreement with AOSI to promote the Vitalife® product lines through our extensive distribution network. With Crosby and AOSI teamed up to provide Vitalife®, it's just another reason to say

"When buying Crosby, you're buying more than product, you're buying Quality!"

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