







# SPECTRA® S1000 FIBER

Strength, Performance and Durability Built into Every Fiber

Honeywell Spectra® fiber is an ultra-high molecular weight polyethylene fiber that has been trusted globally for decades. Pound-for-pound, it's fifteen times stronger than steel by weight and more durable than polyester. Used

when lightweight strength is critical, Spectra® fiber can be found in various demanding industrial applications worldwide, such as ropes and cordages, heavy-lifting, fishing lines and netting, technical textiles and cut protection.

Introducing Spectra® S1000 fiber. This new fiber is tested and proven to deliver cut-resistant, abrasion-resistant properties, ideal to create longer life products at lower overall costs.

 <b>ROPE</b>	 <b>FISHING LINE</b>	 <b>TECHNICAL TEXTILES</b>	 <b>CUT PROTECTION</b>
Spectra® fiber's lightweight strength and versatility make it an ideal solution for virtually every rope and cordage requirement	Due to its lightweight strength, Spectra is ideal for both saltwater and freshwater fishing lines	Engineered to deliver textiles as comfortable and light as they are durable and strong.	Designed to prevent cut hazards for personal protective equipment (PPE)

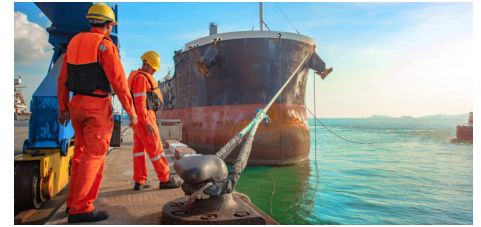
**Honeywell**

## SPECTRA® S1000 FOR ROPE AND CORDAGE APPLICATIONS

The inherent advantages of Spectra® fibers – such as high strength-to-weight ratios, durability, and overall versatility – make this fiber ideal for use in a wide range of demanding rope and cordage applications such as:

- Helicopter lift lines
- Off-road winch cables

- Sailing ropes
- Rigging
- Heavy lifting
- Marine mooring and towing
- Seismic array lines
- Sensor cables
- Divers' umbilical chafe protection
- ROV tethers
- Deepwater placement and recovery
- Space tethers
- Emergency towing kits



- Theatrical rigging and ropes
- Parachute cords and high-altitude balloons
- Safety lines

## SPECTRA ROPE APPLICATIONS

### Industrial Marine

- Pierside Mooring/Docking Lines
- Ship to Ship Mooring
- Towing/Tug Lines
- Fishing Trawl Nets/Lines
- Aquaculture Nets
- Anchor Lines

### ElectroMechanical

- Robotic Tethers
- Electric Cords
- Sensor Cables
- Antennae Guy Wires
- Fiber Optic/Data Transmission

### Defense and Security

- Military and Special Forces: (ropes and tethers)
- Marine Security Barriers
- Entrance Gate Barriers
- Helicopter Rescue Cables and Hoists
- Smart Ropes

### Performance Marine

- Sailing/Yachting Ropes
- Webbing
- Yachting Sails
- Boat Lift Protection Pads

### Recreational

- Climbing Ropes
- Recreational Marine Ropes
- Kite Lines
- Skiing/Wakeboarding Ropes
- Mountaineering Ropes

### Safety & Rescue

- Escape Ropes
- Water Rescue Throw Lines
- Helicopter Rescue Hoist Cables
- Fall Protection Webbing
- High Dielectric Ropes

### Industrial

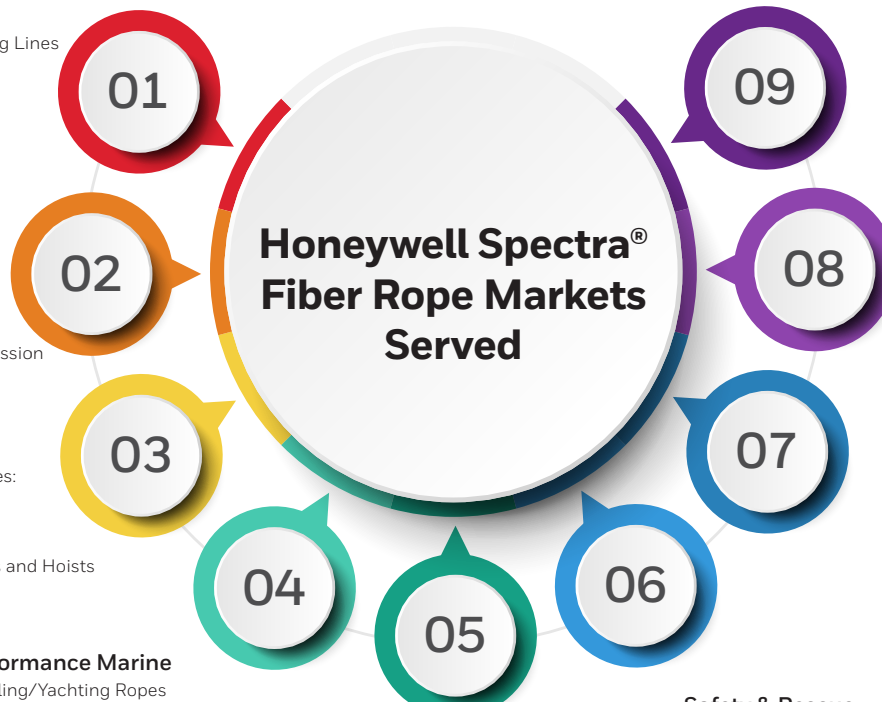
- Logging Ropes
- Utility Stringing Lines
- Cranes Lines
- Mining Winch Ropes
- Off-Road Tow Lines
- High Performance Slings
- Mining Drag Lines
- Utility Truck Hoist Lines

### Offshore Oil & Gas

- Lifting Slings
- Deepwater Mooring
- Deepwater Heavy Lift: (ropes and slings)
- Turret Lift Ropes
- Installation Work Ropes
- LNG Tanker Lines
- Seismic Array Lines

### Specialty Applications

- Tethers
- Arborist Ropes
- Parachute Cords
- Aerostat frames
- Sports Nets
- Off-Road Winch Lines
- Chafe guarding
- Theatrical Lines & Rigging



## INDUSTRIAL APPLICATION SUPPORT AND DEVELOPMENT

**1 Analytical Testing**

- Fiber Tensile
- Filament Tensile
- Microscopy Optical/SEM
- XRD, XRF
- DSC, TGA
- DMA

**2 Application Testing**

Cut resistance	Wicking
Abrasion resistance	Cut Resistance
Fatigue	CBOS
Creep	T-T

**3 Pilot Capabilities**

- Gel Spinning
- Fiber draw
- SubRope draw
- Braiding
- Twisting
- Coating

If you are looking for strong, lightweight, and durable fiber for your rope and cordage applications, contact us to explore Spectra® S1000.

### For more information

<https://advancedmaterials.honeywell.com/us/en/applications/spectra-industrial-fibers>

<https://ess.honeywell.com/us/en>

### Honeywell Energy and Sustainability Solutions

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BRO-24-19-EN | 06/24  
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