



NEW ENGLAND ROPES

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tel 508.678.8200
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Registered ISO 9001
Cordage Institute Member

THERMA-SHIELD™

ARBORIST PRUSIK CORD

PRODUCT DESCRIPTION

Therma-Shield™ Prusik combines the durability and high melting point of Technora® fiber with the soft hand and heat-resistant properties of Nomex® fiber in a rope that has extreme heat and abrasion resistance. Inside, the core is 100% Vectran® fiber resulting in a prusik that is extremely strong with very low stretch.

Nomex® fiber has been used for years in the manufacture of protective clothing worn by firemen for its heat resistant properties. The spun Nomex® in Therma-Shield™ provides a soft, no-slip grip that resists glazing—a leading cause of prusik failure.

FEATURES

- Heat Resistant Cover
- 100% Vectran Core
- Abrasion Resistant
- Non-Glazing
- Available in Finished Assembly or Rope Only

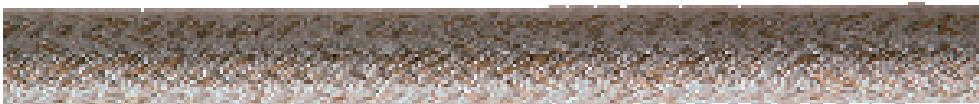
APPLICATIONS

- Arborist Prusik



COMPLEMENTARY PRODUCTS

- Safety Blue™
- Fly™
- Multiline II™
- Safety Pro 12™
- Treeline™



Therma-Shield Prusik

THERMA-SHIELD™

SUNLIGHT/UV:

Very little degradation from UV, and can be used over long term if inspected regularly.

CHEMICALS:

Product has good resistance to most minerals, organics, acids, weak alkalies, bleaches, and other oxidizing agents, as well as to most solvents.

HEAT:

Vectran has a melting point of 660°F with progressive strength loss above 430°F. Technora melts at 1200°F. Nomex carbonizes at 800°F.

DIELECTRICS:

Good resistance to the passage of electrical current. However, dirt, surface contaminants, water entrapment, and the like can significantly affect dielectric properties. Extreme caution should be exercised any time a rope is in the proximity of live circuits.

SHEAVES:

Recommended D/d* ratio is 8:1. (*Sheave diameter to rope diameter)

WORKING LOADS:

No blanket safe working load (SWL) recommendations can be made for any line because SWL's must be calculated based on application, conditions of use, and potential danger to personnel among other considerations. It is recommended that the end user establish working loads and safety factors based on best practices established by the end user's industry; by professional judgment and personal experience; and after thorough assessment of all risks. The SWL is a guideline for the use of a rope in good condition for non-critical applications and should be reduced where life, limb, or valuable property is involved, or in cases of exceptional service such as shock loading, sustained loading, severe vibration, etc. The Cordage Institute specifies that the SWL of a rope shall be determined by dividing the Minimum Tensile Strength of the rope by a safety factor. The safety factor ranges from 5 to 12 for non-critical uses and is typically set at 15 for life lines.

SPLICING INSTRUCTIONS:

Not Applicable

PART NUMBER SERIES:

2950 Series (rope only)

5810 Series (assembled)

When placing an order for this product, please build your part number according to this formula: XXXX-YY-ZZZZ where:

XXXX = Part Number Series (found above)

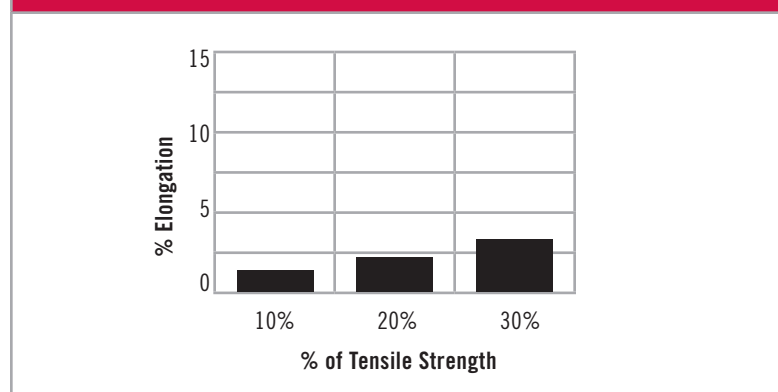
YY = Diameter in mm (e.g., "-08-" = 8mm)

ZZZZ = Length in Feet (e.g., "-00600" = 600')

STRENGTH/WEIGHT

Diameter (inch)	Diameter (mm)	Weight (lbs./100 ft.)	Tensile (lbs.)
5/16"	8	3.2	6,500

WORKING ELONGATION



Compliance to the above specifications is based upon testing according to the *Cordage Institute Standard Testing Methods for Fiber Rope* and/or *ASTM D-4268 Standard Methods of Testing Fiber Ropes*. Weights are approximate and may vary +/- 5%. Tensile strengths reported are approximate averages for new, unused ropes. To estimate the minimum tensile strength of a new rope, reduce the approximate average by 10%. (The Cordage Institute defines minimum tensile strength as two standard deviations below the average tensile strength of the rope.) Stretch data tested to CI 1500-02.



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