

B5INDUSTRIES

MYTHRIL MESH™

[patent pending]



TESTED BY

INTERTEK
LABS



FPInnovations



WESTERN FIRE
CENTER

InnoTech

FLAME SPREAD

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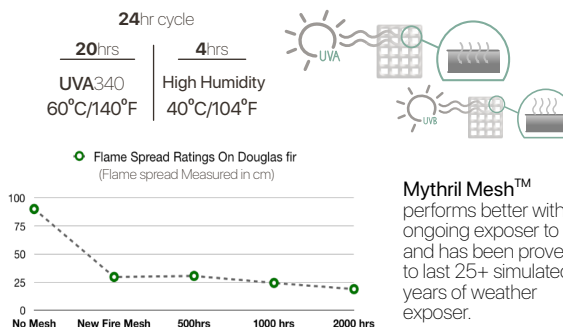
Mythril Mesh™ protective barrier is designed to protect wood structures from burning and scorching. With **Mythril Mesh™** utilities are able to fire harden their systems.

Durability can allow for installation to occur at the site of the Rail Tie provider, without requiring for changes to current transportation methods and practices.

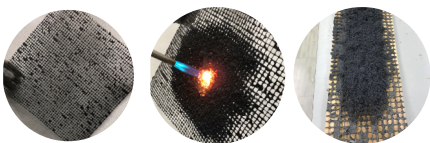
Mythril Mesh™ is an Intertek tested and listed product (spec id: 39080) and carries the **Warnock Hersey Mark**.

EXTREME UV Resistance

InnoTech test of **Mythril Mesh™**



UNPARALLELED performance



WESTERN FIRE CENTER TESTING

Test procedure developed to simulate forest fire conditions.

1. Sample is exposed to heat panel with heat flux of 50 kw/m2 (935°C) for 5 minutes.
2. Ring burner is ignited for 5 minutes with heat flux of 40 kw.
3. At 10 minutes from the start of the test the heat sources are removed and the sample is placed in front of a fan and exposed to a wind of 2 m/sec.
4. Test is completed when sample burns down or when temp of the sample is less than 50°C.



RESULTS

- The results of poles wrapped in Mythril Mesh indicated that no flame was sustained beyond the removal of the ring burner.
- Damage to the poles were so minimal that there was no effect to the overall strength of the pole.
- The temperature of a pole wrapped in Fire Mesh fell below 50°C only 8 minutes after the removal from the flame and 1800°F panel.
- The control sample in this same test was deemed to have undergone catastrophic failure, and it remained above 50°C for over 4 hours*

The test results spoken of were on two identical untreated western red cedar poles.

HIGH Durability

Durability allows for installation to occur at the site of the pole/tie provider, without requiring for changes to current transportation methods and practices.

Designed to be handled without any changes to current working and handling standards and procedures.



CLIMB-ABILITY

Mythril Mesh™ is gaff-able and climbable without any additional requirements for tools or gear.

Gaffs can easily penetrate through the 23 gauge mesh and make solid contact with the wooden pole.

*Holes created by gaffing do not compromise the performance of **Mythril Mesh™**. However patches should be used to cover larger holes.



WORKS With Existing Hardware

Mythril Mesh™ can be installed on in-field ties/poles and bridges and can be easily cut to fit around existing hardware.

When Installed properly around existing hardware, there is no loss of ability for **Mythril Mesh™** to stop the damage of fire to the wooden structure.

