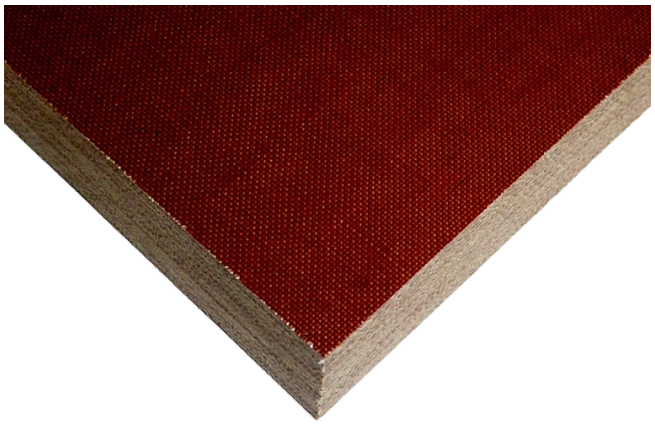
Canvas “C” Grade Phenolic

High-Impact Mechanical Laminate

Description and Overview

Canvas phenolic (Grade C) is an industrial laminate engineered for mechanical toughness and superior impact resistance compared to paper-based phenolic grades. Made of a continuous cotton fabric base and phenolic resin, it provides a resilient, non-sparking alternative to steel and iron, making it ideal for high-stress and hazardous environments. It operates with significantly less noise than metal counterparts.

Canvas phenolic complies with MIL-I-24768/16, Type FBM. It is easy to machine and fabricate using standard machining equipment, offers good wear resistance, and is less abrasive than fiberglass-reinforced laminates in wear applications. This material maintains its structural integrity in operating temperatures up to 250°F (121°C).



Canvas Phenolic is available in full sheet and cut-to-size options.
Full sheet: 48” x 96”
Thicknesses: .125” to 5”

Applications and Uses

Canvas phenolic is built for heavy-duty mechanical applications where noise reduction, impact strength, and non-sparking performance are important. It is fabrication-friendly and offers a durable, low-wear solution for demanding industrial power transmission and material handling environments.

- Power transmission gears
- Pulleys and sprockets
- Explosion-proof mining equipment
- Oil and gas machinery components
- Heavy machinery wear strips
- Babbitt bearings for presses and mills
- Material handling rollers
- Bushings and spacers
- Structural load-bearing components

Properties and Specifications

Property	Canvas Phenolic
Specific Gravity	1.35 g/cc
Water Absorption @ 24 hrs.	1.6%
Tensile Strength	11,200 psi
Flexural Strength	22,000 psi
Izod Impact Strength	1.95 ft-lbs/in.
Hardness	M103
Compressive Strength	37,000 psi
UL Flammability	HB
Linear Expansion Coefficient	1.1 x 10^{-5} in./in./°C
Affixable Properties	Chem/Mech

Properties are typical.
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.
Mech is an abbreviation for mechanically affixed bonding.
Field testing is recommended for any application.

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