



ACOUSTICAL SOUNDPROOFING BLANKETS

Educational Guide: Understanding Acoustical Blankets & Their Role in Noise Control

WEB:

www.allnoisecontrol.com

PHONE:

(407) 559-7127

Acoustic blankets—also known as acoustical blankets, noise control blankets, or soundproofing blankets—are engineered materials designed to absorb, block, and reduce unwanted noise. They are widely used in industrial, commercial, and mechanical environments due to their flexibility, portability, and high acoustic performance. Unlike permanent sound enclosures or rigid panels, acoustic blankets offer a customizable, removable, and cost-effective solution for reducing noise at its source.



HOW ACOUSTIC BLANKETS WORK

Acoustic blankets function by combining absorption, blocking, and dampening principles:

1. Sound Absorption

The inner layers of the blanket contain mineral fiber, fiberglass, or composite acoustic insulation that absorbs airborne noise before it spreads through a space.

2. Sound Blocking

A loaded vinyl or mass-barrier core prevents sound from passing through the blanket, reducing transmission from loud machinery or mechanical systems.

3. Vibration Dampening

Some models include materials that reduce vibration-related noise, common in pumps, compressors, and HVAC equipment.

These three functions work together to significantly reduce overall noise levels without the need for major renovations or structural modifications.

WHY ACOUSTIC BLANKETS ARE IMPORTANT

Noise pollution is a major concern in industrial and commercial settings. Prolonged exposure leads to worker fatigue, decreased productivity, and OSHA non-compliance.

Acoustic blankets solve these challenges by providing:

- **On-demand noise reduction**
- **Improved worker safety**
- **Better communication in loud areas**
- **Compliance with regulatory noise levels**
- **Minimal disruption to facility operations**

TYPES OF ACOUSTIC BLANKETS

Acoustic blankets are available in various models designed for specific environments:

1. Interior Acoustic Blankets (AB110, AB12, AB13, AB22)

Used for indoor machinery, wall partitions, pump rooms, and mechanical equipment.

2. High-Density Industrial Blankets (AB220)

Made for heavy manufacturing, construction, and equipment isolation where noise is severe.

3. Weatherproof Exterior Blankets (EXTR & EXTR-2)

Specialized for outdoor applications such as generators, HVAC units, chiller systems, and exposed equipment.

These models are UV-resistant, waterproof, and highly durable against environmental conditions.

HOW ACOUSTIC BLANKETS ARE INSTALLED

Installation varies by blanket type but generally includes:

- **Velcro seams for fast access**
- **Grommets for hanging or mounting**
- **Custom-cut panels that wrap around machinery**
- **Modular enclosure systems for high-noise equipment**

Most installations can be done without shutting down equipment, minimizing operational disruption.

