

Looking for a **green**, superior performing acoustical or thermal insulation material?

The Product

Cellulose Material Solutions, LLC (CMS) produces cellulose-based products made primarily from post-consumer and post-industrial paper, with recycled newspaper being the main raw material.

In addition to 100% recycled fiber content, CMS products are in most cases 100% recyclable, making them the greenest products in today's marketplace. The material can be soft or semi-rigid, lofted or compressed, with engineered density and precision thicknesses between 4mm and 150mm. Scrim, coatings or other surface treatments can be applied in-line or in flow type post processing. The products are also moldable.

Typical applications include but are not limited to office panels, acoustic panels/inserts, insulation components, and any molded, flat panel or lofted material. The product is Class A fire-rated, and CMS products not only replace, but acoustically and thermally outperform, many fiberglass products.



The Company

CMS and Nu-Wool Co., Inc. are located in the same facility in Jenison, MI. CMS is the sister company of Nu-Wool. Established in 1949, Nu-Wool is the oldest manufacturer of cellulose-based thermal and acoustical insulation in the world. Nu-Wool accumulates recycled paper from a large/multi-state region through a variety of channels, including contractual relationships with premium paper producers. With long established supplier relationships, Nu-Wool is able to secure ample supplies of recycled paper at below market prices. Nu-Wool processes over 150 tons of recycled paper daily, the equivalent of 2,550 trees. Putting all of this paper to use helps keep it out of landfills, where it has the potential to pollute the environment. Combining Nu-Wool's nearly 60 years of cellulose fiber expertise with cutting edge non-woven forming equipment, CMS produces first-of-their kind cellulose-based batts, blankets, panels and semi-rigid boards.

The Process

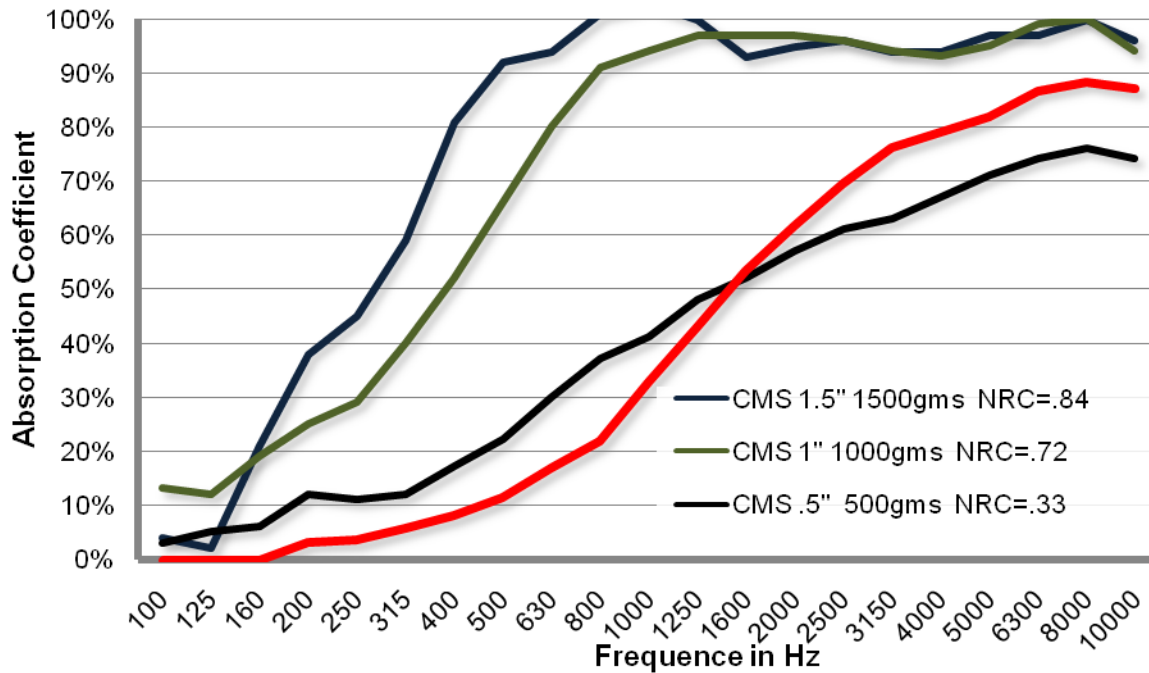


The photo here shows recycled newspaper after initial shredding and reclaimed cellulose fiber after final processing. This reclaimed fiber is then run through the specialized non-woven forming operation.

Thickness, density, width and length can all be controlled in the main production line. Some scrim or other supplemental coverings can be laminated in-line. If there is a need for supplemental coatings, laminates, etc. in addition to the precision sizing, all can be done in a post processing operation. Roll coating, spray applications, water jet cutting, die cutting, etc. are some examples of the equipment installed for this purpose.

Application Notes

Acoustical Performance



This acoustical chart shows examples of the superior acoustical absorption (NRC) of CMS products compared to certain fiberglass products.

Standard Sizes & Configurations

Material can be produced and supplied in varied thicknesses and widths up to approximately 2.5 meters (~100"). Lengths are only limited by handling constraints.

CMS is capable of custom coating, cutting to size, and providing other post processing operations. The post processing includes molding and other advanced options.

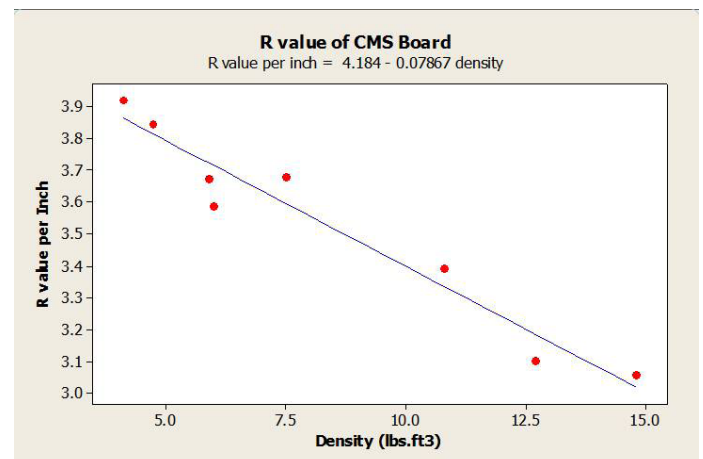
Thermal Performance

Thermal performance, as well as other criteria, is dependent on many adjustable parameters within the product's capability. This chart is for example only.

Other Criteria/Characteristics

The product can be designed for acoustic absorption, sound transmission loss (STC), and/or damping functions, separately or in combination.

As with other functional or commercial criteria, the product can be tailored to fit multiple applications. For instance, CMS material has met UL-Class A fire rating in suspended and laminated configurations, with and without various cover materials. Depending on your application design and requirements we can provide suitable solution for your review.



For more information please contact us at info@cmsgreen.com to discuss your application opportunities.