

High temperature insulation has never felt so GREEN

Biosoluble high temperature
needed blanket insulation

*Reduce your
heat loss up to*

24%

with TREO



TREO IS MADE FROM
100% PRE-CONSUMER
RECYCLED MATERIALS

TREO™

The Safer Alternative



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High temperature insulation

TREO™ is the latest inorganic high-temperature needed blanket alternative to ceramic fiber from McAllister Mills. With 1800°F (1000°C) maximum temperature rating, this bio soluble, vitreous silicate fiber matting will provide the thermal performance you require without the health and safety concerns related to other high-temperature insulations. Along with excellent thermal capability, its improved handling will improve your fabrication and installation procedures and help lower your overall labor costs.

3 Good Reasons to Choose TREO™

■ Save on Energy Costs:

*Less Fossil Fuel or Electricity needed to produce the same results
Energy saving that goes straight to your bottom line*

■ Go Green:

*Reduce Emissions
Lower environmental impact by reducing greenhouse gases
TREO™ is manufactured from 100% recycled materials*

■ Insure Your Employees' Safety:

*Lower Surface Temperature
Biosoluble
IARC: Group 3 - not classifiable as carcinogenic to humans*

Typical Applications

Furnace linings
Thermal insulation
Acoustic insulation
Fire protection
Heat shields
Turbine wrap

Typical Industries Served

Aluminum - primary / secondary
Power Generation
Appliance
Fire Protection
Foundries
Petrochemical
Marine
Automotive
Ceramic Industry

Values & Benefits

Biosoluble fiber
Easy to fabricate
Low shot content
Will not form crystobalite





Health & Safety

The blend of fibers used to manufacture **TREO™** has been classified by IARC as Group 3. Please see the Material Safety Data Sheet for specific information concerning the handling of this material.



Thermal Conductivity

500°F	0.417
1000°F	0.922
1500°F	1.69
1800°F	2.27

Maximum Temperature Exposure

1800°F

Fiber Melting Temperature

>2012°F



Flexible Production

TREO™ is fabricated in the U.S.A at our Virginia plant. We control all aspects of production and manufacturing, avoiding all the pitfalls of outsourcing and achieving quick turn-around time and swift delivery of your orders.

Achieve LEED Credits

TREO™ is eligible for LEED Credits for recycled content under the U.S. Green Building Council (USGBC) and the Canada Green Building Council's (CaGBC) Leadership in Energy and Environmental Design Green Building Rating System.

TREO™ THE high performance and high temperature insulation with significant environmental difference.

TREO™ lowers surface temperature and greatly reduces heat loss... Lowering your Energy Cost!

ENERGY SAVINGS	4" Ceramic 6 PCF			4" TREO™	
	Hot Face (°F)	Cold Face (°F)	Heat Loss Btu/ft ² /hr	Cold Face (°F)	Heat Loss Btu/ft ² /hr
1000	1000	146	123	136	102
1250	1250	177	200	160	156
1500	1500	214	302	189	231



Even when used as back-up insulation to a traditional ceramic fiber lining, (e.g. 2" of **TREO™** and 2" of ceramic liner replacing a 4" ceramic only insulation) **TREO™** will reduce heat loss better than ceramic only, translating into energy cost savings.



Go Green and Save
With TREO™

Typical Chemical Analysis

Silicon Oxide	42%
Aluminum Oxide	14%
Calcium Oxide	15%
Magnesium Oxide	7.5%
Ferrous Oxide	0.1%
Manganese Oxide	10%
Other	3.4%

Physical Properties

Color	Off-White
Available Thicknesses	1/4" to 1"
Standard Widths*	24" /48" /54"
Density	10 pcf

*other widths and custom thicknesses available.

LEED Credits

LEED Category Materials & Resource (MR)
Credit 4: Recycled Content

LEED Requirement Use materials with recycled content such that the sum of post-consumer recycled content plus one-half of the pre-consumer content constitutes at least 10% or 20% (based on cost) of the total value of the materials in the project.
10% – 1 Point
20% – 2 Points

TREO™ is manufactured using **100%** pre-consumer recycled raw materials. **TREO** is also Bio-Safe and meets IARC Group 3.



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Thermal Solutions for Industry
McAllister Mills manufactures a wide range of cloths, tapes, blankets, and more.

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