

Thermafiber® Granulated Wool

Cryogenic Wool

- + Economical fiber that can be used in a variety of industrial cryogenic applications
- + Superior fire and heat resistance
- + Available in regular or Low pH grade
- + Can be installed by hand-packing or by pneumatic blowing



Thermafiber's Cryogenic Wool is designed for low temperature insulation of cryogenic cold boxes, towers, ducts and other liquefied natural gas storage vessels and handling components.



Thermafiber Cryogenic Wool is comprised of granulated inorganic fibers that are specifically designed for the service needs of Industrial Cryogenic Applications.



Thermafiber



Made in the USA

Thermafiber® Granulated Wool

Description:

Thermafiber cryogenic wool products are specifically designed for super low temperature insulation applications and meet the demanding needs of Industrial Cryogenic Applications. Cryogenic wool is predictably low in organic matter content thus lowering the risk of explosions in liquid oxygen installations. This wool can be installed by “hand-packing” to provide the optimum performance or pneumatically blown for labor saving efficiency. It is well suited for packing Cold Boxes where inspection probes and/or pipes are regularly “tunneled” to meet process needs.

Installation:

Recommended Density Ranges for Installed Cryogenic Wool		
Product	Density in pounds per cubic ft*	30 kg/m ³ *
Hand Packed Application	10 – 12	160 – 192
Pneumatically Installed Applications	3 – 5	48 – 80

*The maximum installed density is 15 lb/cubic ft (240 kg/m³)

Product Options:

Product	Package Volume/cu. ft	Weight lb./bag*
Cryogenic Wool	3.5	30

*Custom weight bags or bales are available upon request

Technical Data:

Thermal Conductivity tested to ASTM C 177					
K-factor – BTU • in./hr. sq.ft. °F ² (10 pcf Density)					
-50° F	-25° F	0° F	25° F	50° F	75° F
0.19	0.21	0.23	0.24	0.25	0.25

Maximum Service temperature Tested to ASTM C 411	Tested to ASTM E 84	
	Flame Spread	Smoke Developed
-400° F - 1,200°F (-205°C - 650°C)	0	5

Compression Load lb/ft ²	Resulting Density lb/ft ³
0.0	5.0
5.0	5.2
25	6.6
100	8.5
200	10.0
400	13.0
660	16.0
Capillarity	< 5" @ 15 pct

Chemical Composition	
Oxide	Percent by Weight
SiO ₂	38 – 46
Al ₂ O ₃	8 – 15
CaO	24 – 36
MgO	5 – 10
Fe ₂ O ₃	0 – 4
S	0 – 1
pH	8.5 – 9.0
Loss on Ignition (combustibles) 0.2% max	

Standards Compliance:

ASTM E 136 Rated Non-combustible per NFPA Standard 220

For Further Information:

For additional information about these or other Thermafiber products contact us at 1-888-834-2371 or visit our website www.thermafiber.com.

Notice:

THERMAFIBER, Inc. shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. THERMAFIBER liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

Submittal Approvals:

Job Name	
Contractor	Date

