



MINERAL WOOL PRODUCTS FIRE, SOUND, & MOISTURE PROTECTION

About Us:

ISOLATEK INTERNATIONAL was founded in 1876 under the United States Mineral Products Company name, and operated as the first mineral wool manufacturer in North America. Headquartered in Stanhope, NJ, Isolatek got its start supplying loose mineral wool for residential and industrial use.

The company went on to develop the first pneumatically sprayed mineral wool for use in the fire protection of steel and concrete structures in the 1950's. This focus on life safety materials continued into the 21st century, however mineral wool production remained the backbone of the Isolatek product offerings.

Today, ISOLATEK INTERNATIONAL continues to supply loose mineral wool for manufacturing, industrial, residential and commercial use. Our commitment to quality and excellence has never wavered in just short of 150 years in operation. With the ability to customize loose mineral wool for virtually any application, our products have a proven track record of success.

Benefits:

- Exceptional heat and fire resistance
- High thermal and sound control properties
- Economic insulator or reinforcement fiber for high temperature applications, friction, cryogenic, refractory, fabrication, and many more end uses.
- ISO 9001 Certification providing consistent and high quality materials.
- Pneumatic or hand application to achieve wide range of installed densities.
- Available in variety of packaging options to fit process needs.



*Advancing Passive
Fireproofing Technology™*

PRODUCT OFFERINGS:

1821 - Standard Wool

A bulk mineral wool available in granulated form, ISOLATEK WOOL is available in various forms depending on specific requirements. This product can be virtually "tailor-made" to fit a particular need, and is available in 40 lb bags (1821), 30 lb bags (1802), and nominally 700 lb bales (1701). Custom packaging available upon request.



1833 - HPS Wool

A bulk mineral wool available in smaller nodules form, ISOLATEK HPS WOOL is available in 40 lb bags.

1811 - Cryogenic Wool

Designed for super low temperature insulation of cryogenic cold boxes, towers, ducts and other liquefied industrial gas storage vessels and handling components, Cryogenic Wool has a predictable low combustibility (oil) content. The product can be installed by "hand-packing" or by pneumatic blowing with highly dependable quality and performance. Available in 30 lb bags.

APPLIED DENSITY*	
Compression Load	Resulting Density
lb / ft2 (kg/m2)	lb / ft3 (kg/m3)
0.0 (0.0)	5.0 (80)
5.0 (24)	5.2 (83)
25 (122)	6.6 (106)
100 (488)	8.5 (136)
200 (976)	10.0 (160)
400 (1,953)	13.0 (208)
660 (3,222)	16.0 (256)

Property	Standard	Standard Wool	HPS Wool	Cryogenic Wool
Temperature Limits	ASTM C411	-18°C to 650°C (0°F to 1,200°F)	-18°C to 650°C (0°F to 1,200°F)	-205°C to 650°C (-400°F to 1,200°F)
pH	-	7.0 - 9.5	7.0 - 9.5	7.0 - 9.5
Loss on Ignition (%)	BS 2972	< 1% by weight	< 1% by weight	< 0.5% by weight
Thermal Conductivity (K)				
2.5 pcf @ 75°F mean temp	ASTM C177	0.317 (BTU in/hrft² °F)	0.317 (BTU in/hrft² °F)	see table below
8 pcf @ 75°F mean temp	ASTM C177	0.28 (BTU in/hrft² °F)	0.28 (BTU in/hrft² °F)	see table below
Moisture Content (%)	ASTM C1104	< 1%	< 1%	< 0.5%
Applied Density (pcf)	-	3-5, 10-12*	3-5, 10-12*	2 - 15
Fiber Diameter (µ)	-	3 - 8	3 - 8	3 - 8
Wet Bulk Density	-	> 250	> 250	> 250
Capillarity	-	-	-	< 127 mm (5") at 240 kg/m3 (15 pcf)
Surface Burning	ASTM E84	Class A	Class A	Class A
Combustibility	ASTM E136	Non Combustible	Non Combustible	Non Combustible
Corrosivity	ASTM C665	-	-	-

*Applied density will depend on application techniques

CRYOGENIC WOOL THERMAL CONDUCTIVITY (ASTM C177)			
Mean Temp. (°F)	Thermal Conductivity (BTU in/hrft2)	Mean Temp. (°C)	Thermal Conductivity (W/mK)
-50	0.19	-58	0.027
-25	0.21	-13	0.03
0	0.23	32	0.033
25	0.24	77	0.034
50	0.25	122	0.036
75	0.25	167	0.036

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ISOLATEK INTERNATIONAL® provides passive fireproofing materials under the CAFCO® and FENDOLITE® trademarks throughout the Americas and under the ISOLATEK® trademark throughout the world.

ISOLATEK®
Brand