

With input from both Naval architects and shipyard insulators, Low K-200 was designed for use in insulation products specified for thermal and acoustic applications. Crafted with the utmost regard for inhabitant safety, insulating performance, and vessel performance, lightweight Low K-200 meets the performance and safety criteria of DOD-I-24688.

Applications

- Shipboard hulls, bulkheads, overheads, stiffeners, beams, and ductwork requiring thermal protection
- Bulkheads, stiffeners, and beams that require treatment for fire impingement
- Shipboard applications requiring USCG fire ratings per USCG No. 164.007

Features and Benefits

- Lightweight polyimide foam
- Fewer mechanical fastening devices required
- Inherently fire resistant, thus yielding longer burn-through times, low surface-burning characteristics, very low smoke developed, no significant toxic off-gassing
- Easy implementation and low installed cost
- Increased resistance to abuse and water damage
- Low K-200 can be provided in a variety of sizes and shapes, and faced with a number of facings and jacketings (see chart).

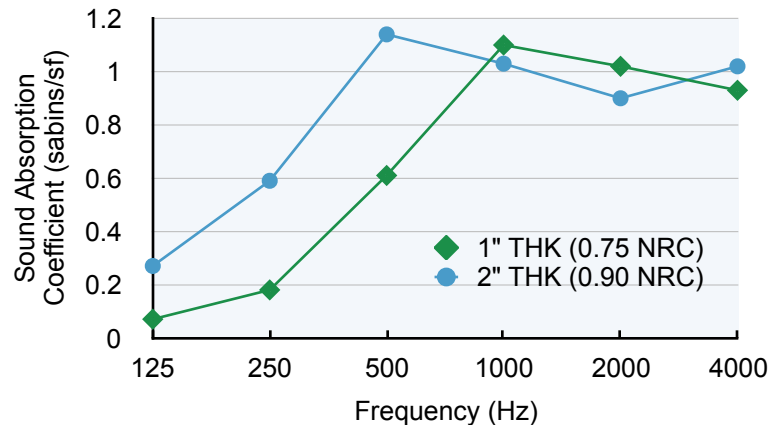
Low K-200 has the full approval of the U.S. Navy and meets the following specifications:

- DOD-I-24688
- ASTM C1482
- MIL-T-24708
- MIL-I-24244

Low K-200 Physical Properties

Density ASTM D3574 Test A	0.40 lb/ft ³ (6.4 kg/m ³)
Tensile Strength ASTM D3574 Test E	≥8.5 lb/in ² (≥59 kPa)
Max Continuous Use Temperature	400°F (205°C)
Thermal Conductivity at 75°F ASTM C518	0.32 BTU•in/hr•sf•°F 0.046 W/mK
Flame Spread Index ASTM E84	<5
Smoke Developed Index ASTM E84	<5
Limiting Oxygen Index ASTM D2863	>28%

Sound Absorption
(ASTM C423 and E795, Type A Mounting)



Product Name	Description
Low K-200 Plain	Unfaced polyimide foam. Meets DOD-I-24688, TY-I.
Low K-200 CF (Cloth Faced)	Faced with fiberglass cloth per MIL-C-20079, TY-II, CL-1. Meets DOD-I-24688, TY-II, CL-1.
Low K-200 GRVD (Grooved)	Grooved/slotted and faced with perforated fiberglass cloth per MIL-C-20079, TY-II, CL-1. Meets DOD-I-24688, TY-II, CL-2.
Low K-200 TS (Tuffskin)	Faced with fiberglass scrim reinforced mylar per MIL-I-22023, TY-III. Meets DOD-I-24688, TY-I
Low K-200 Foil	Faced with 2-mil aluminum foil

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* The information included in this data sheet is subject to normal manufacturing and testing variances. It is supplied only as a technical service and is subject to change without notice. Rev. 3 - 02/12/2021