

DESCRIPTION

Precipitator Spin-Glas is a 2.4 pounds per cubic foot (38.5 kg/m³), semi-rigid, lightweight, felted board composed of fine rotary-process fibers bonded with a special organic resin. Density, binder content and thickness are carefully controlled to ensure full insulating value and strength.

APPLICATIONS

Precipitator Spin-Glas is specifically designed for insulating precipitators, baghouses, scrubbers, ducts and breechings in power-generation plants. It is also suited for boilers, heaters, ovens and other industrial equipment operating at temperatures up to 850°F (454°C).

AVAILABLE SIZES

It is furnished in thicknesses from 1" to 4" (25 mm to 102 mm) in 1/2" (13 mm) increments; lengths of 48" and 96" (1.22 m and 2.44 m) and available in 12" and 24" (305 mm and 610 mm) widths. Other sizes are available on special order.

ADVANTAGES

Superior Strength. Precipitator Spin-Glas Insulation, with long fibers uniformly distributed and held by an organic binder, is resilient, strong, shot free and highly resistant to damage in shipping, handling and installation. It is highly resistant to damage from vibration.

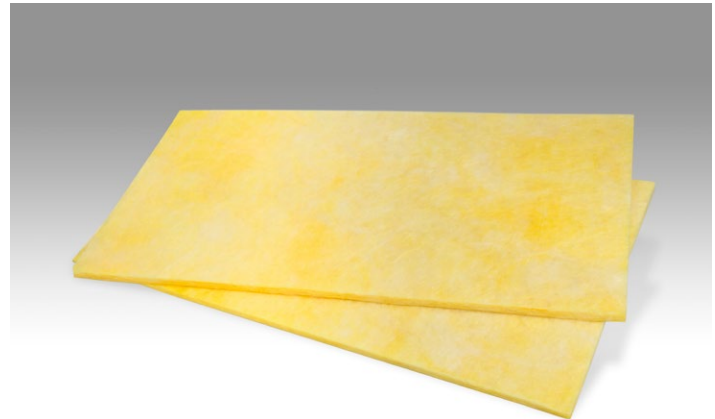
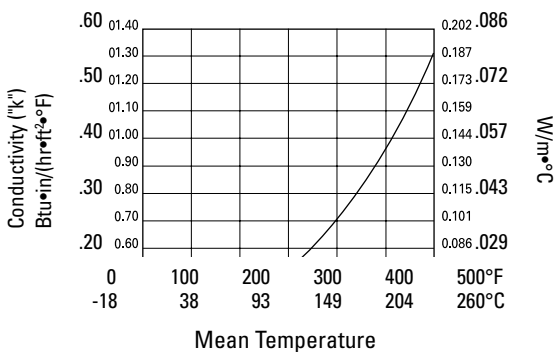
Simple Installation, Low Installed Cost. Precipitator Spin-Glas has a clean, "friendly" feel and is substantially lighter in weight than many mineral wools with comparable thermal performance. It is adaptable to flat or curved surfaces; easy to make tight butt joints; easy to cut and shape around obstructions and it may be installed using pins, wire, mesh or in prefabricated panels. Experienced mechanics can install more boards in the same period of time.

Low Thermal Conductivity. Uniform fiber orientation and thickness provide dependable conductivity ratings.

THERMAL CONDUCTIVITY (K)

Mean Temperature	°F	75	300
	°C	24	149
Btu•in/(hr•ft ² •°F)		0.23	0.35
W/m•°C		0.033	0.048

THERMAL CONDUCTIVITY (ASTM C 518)



Operating Temperature Limit: 850°F (454°C)

QUALIFICATIONS FOR USE

1. Precipitator Spin-Glas may be used up to 850°F (454°C) with a maximum thickness of 6" (152 mm). Double-layer construction with staggered joints is recommended when equipment expansion is such that gaps begin to open between insulation sections (usually 400–600°F [204–316°C]).

950°F (510°C) intermittent temperature exposure is acceptable for periods less than one hour as long as the product has been stabilized at 850°F (454°C) for at least 24 hours.

2. Initial Heat-Up

During initial heat-up to operating temperatures above 350°F (177°C) an acrid odor and some smoke may be given off as the organic binders used in the Spin-Glas insulation begin to decompose. When this occurs, caution should be exercised to ventilate the area well.

For applications above 650°F (343°C), Precipitator Spin-Glas must be allowed to stabilize at 650°F (343°C) for at least two hours prior to heating up to 850°F (454°C). This applies only to the first heat-up.

RECYCLED CONTENT



SPECIFICATION COMPLIANCE (REQUEST FOR CERTIFICATION MUST ACCOMPANY PURCHASE ORDER)

Government	ASTM
HH-I-558C, Form B, Type I, Class 8 up to 850°F (454°C)	C 612, Type II
CAN/51-GP-10M	C 795**
MIL-I-24244C**	E 84 Flame Spread – 25 or less
NRC 1.36**	Smoke Developed – 50 or less
	E 136 (noncombustible)

**When ordering material to comply with these specifications a statement of that fact must appear on the purchase order. Specific lot testing will be conducted and a certification of compliance can be provided.

SOUND ABSORPTION COEFFICIENTS (ASTM C 423) (TYPE "A" MOUNTING)

Thickness (in)	(mm)	Frequency (Hz)						NRC*
		125	250	500	1000	2000	4000	
1.0	25	0.08	0.32	0.68	0.95	1.06	1.04	0.75
2.0	51	0.20	0.85	1.11	1.11	1.07	1.07	1.05
3.0	76	0.52	1.23	1.16	1.09	1.07	1.10	1.15
4.0	102	0.80	1.23	1.10	1.09	1.08	1.08	1.10

*Noise Reduction Coefficients: The average of the coefficients at 250, 500, 1000 and 2000 Hz expressed to the nearest integral multiple of 0.05.



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Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of Precipitator Spin-Glas® listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

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