



## AMS-Glas

**AMS-Glas is a lightweight thermal and acoustic insulation material specifically developed as a hull treatment for the shipbuilding industry. AMS-Glas exhibits excellent thermal, acoustic and flammability properties while meeting all of the United States Navy's requirements for offgassing and toxicity.**

**AMS-Glas is available with many marine facings such as CF (white resin treated fiberglass cloth), WM (white fiberglass reinforced mylar), PF (perforated CF facing) or AF (2 mil aluminum foil).**

**AMS-Glas can also be fabricated to be a Type III transmission loss treatment with the addition of a septa material such as AMSN MAB no lead marine barrier. This barrier is available in .75, 1.0 and 1.5 #/sf weights.**

**AMS-Glas is approved by the USN for use on Mil-I-742 and Mil-I-22023 TY 3 applications. It also meets or exceeds all properties of DOD -I-24688.**

Density	ASTM D 3574 Test A		.75 lb per ft <sup>3</sup> (unfaced)				
Thermal Conductivity (k)	ASTM C 518		.232 btu-in/hr-ft <sup>2</sup> -F° @ 75° mean temp.				
Specific Optical Density	ASTM E 662						
Non-Flaming			9				
Flaming			8				
Surface Burning	ASTM E 84-95						
Flame Spread			5				
Smoke Developed			0				
Full Scale Fire Test	ISO 9705-1993		Pass				
Quarter Scale Fire Test	DOD-I-24688, MIL-I-22023		Pass				
Non Combustibility	ISO 1182-1990		Pass				
Compression Resistance	MIL-I-742, para 3.6 & 4.7.5		.005" after 5 min 40% compression				
Wicking	BMS 8-48W		Pass				
Fungi	ASTM C 1338		Did not support mold growth				
Vibration	Sine Vibration		No Visible Damage/Deterioration				
Toxicity (CF faced non-flaming)	ASTM E 662 & 800						
	CO		10				
	HCl		0				
	CO <sup>2</sup>		174				
	HCN		0				
	pH		7.4				
	Alkalinity		0.02%				
Formaldehyde		5.1 ug/m <sup>2</sup> -hr					
Acoustic Absorption	Frequency (Hz)						
ASTM C 423-90a	125	250	500	1000	2000	4000	NRC
1/2" Plain	0.070	0.050	0.210	0.510	0.730	0.930	0.400
1" Plain	0.060	0.150	0.730	1.000	1.070	1.070	0.750
2" Plain	0.150	0.420	1.200	1.100	1.050	1.070	0.950
ASTM E 90	125	250	500	1000	2000	4000	STC
4/25"- 2.25# septa	0.220	0.270	0.300	0.340	0.290	0.360	31

**Disclaimer: This information contained herein is believed to be accurate and correct. However, no warranty, implied or expressed, is made, regarding its accuracy or the results to be obtained from the use of this information.**