



**ULTRACORE DIVISION**  
Bakersfield, California

## ULTRACORE AIRCRAFT INSULATION UAI-1050WR

### APPLICATION

UAI-1050WR grade insulations are light weight thermal acoustic AA fiber glass battings for use in the aircraft and aerospace industries.

### DESCRIPTION

The UAI battings are manufactured to provide exceptional thermal acoustic performance. The thermoset phenolic binder system imparts excellent water repellency and flame and punking resistance.

### ROLL SPECIFICATIONS

Width (inches): Maximum 72 (Tolerance +/- 0.25)  
Length (feet): Standard 100  
Core: Cardboard with 2 inch ID

### PERFORMANCE

Water repellent  
Flame and punking resistant  
Low smoke density and toxicity  
Non-corrosive  
Good dimensional stability and strength  
Vibration damage resistant  
Fungal growth resistant  
Non-wicking

AVAILABILITY			
DENSITY lbs / ft <sup>3</sup>	THICKNESS inch	COLOR	SPECIFICATIONS AND COMPLIANCES
0.60	0.50, 1.00, 1.50	GREEN	BMS 8-48, DMS 1967, STM 26701, ASTM C800, FAR 25.853
1.50	0.38	YELLOW	BMS 8-48, DMS 2087, ASTM C800, FAR 25.853
1.00	0.50, 1.00	ORANGE	ASTM C800, FAR 25.853
OTHER THICKNESSES, COLORS AND SPECIFICATIONS ARE AVAILABLE UPON REQUEST			

THERMAL CONDUCTIVITY – ASTM C518								
PRODUCT	DENSITY lb / ft <sup>3</sup>	THICKNESS inch	MEAN TEMPERATURE (btu-in)/(°F-hr-ft <sup>2</sup> )					
			50 °F	75 °F	100 °F	200 °F	300 °F	400 °F
UAI 1050WR	0.60	0.50	0.22	0.23	0.25	0.31	0.38	0.47
UAI 1050WR	0.60	1.00	0.22	0.24	0.25	0.33	0.42	0.55
UAI 1050WR	1.00	0.50	0.20	0.21	0.22	0.26	0.31	0.37
UAI 1050WR	1.00	1.00	0.22	0.23	0.24	0.29	0.36	0.45
UAI 1050WR	1.50	0.38	0.20	0.21	0.22	0.26	0.32	0.38

TRANSMISSION LOSS – ASTM E90						
PRODUCT	DENSITY lb /ft <sup>3</sup>	THICKNESS inch	THICKNESS AS TESTED inch	dB LOSS		
				1000 Hz	2000 Hz	4000 Hz
UAI 1050WR	0.60	0.50	3* x 0.50	8.0	14.0	19.8
UAI 1050WR	0.60	1.00	3* x 1.00	13.5	24.3	34.2
UAI 1050WR	1.50	0.38	3* x 0.38	10.5	20.2	29.8
*BOEING BMS 8-48 SPECIFIES THREE LAYERS TO BE INSTALLED IN FRAME FOR TESTING						

Web Site: [www.upf-usa.com](http://www.upf-usa.com)

Customer Service: [upfcustomersvc@upf-usa.com](mailto:upfcustomersvc@upf-usa.com)