

Cool solutions to thermal problems.

Rocky
Research

COMMERCIAL | INDUSTRIAL | DEFENSE

Complex Compounds: COMBAM COordinative Molecular Bond Armor Material

COMBAM is a revolutionary cooling technology now being developed by Rocky Research. The material can be “charged” with refrigerant and programmed at the molecular level to release the refrigerant at a predetermined rate. Thanks to an unintended consequence of its molecular structure, the material has also proven to be more bulletproof than Kevlar.



C.O.M.B.A.M. Sheet



Bullet Penetration Test

In addition to developing the technology and material, Rocky Research has also developed an efficient manufacturing process for future production. Using this process, COMBAM can be molded into any shape of virtually any size, sure to make it an incredibly versatile and valuable technology in the near future.



UNITED STATES TEST LABORATORY
N.I.J. STANDARD 0108.01 TEST

Date Received: 11/30/04
Via: DHL
Returned Via: UPS

Record No: LM04018
Test Date: 12/6/04
Customer: Lockheed Martin

Test Conditions

Temperature: 71 F.
Humidity: 38 %
Model No.: N/A
Lot No.: N/A
Size: 12.5"x12.5"
Thickness: See Remarks
Test Specification: N.I.J. 0108.01
Threat Level: IIA

Range

Muzzle to Scr. 1: 6.33 ft.
Screen 1 - 2: 5.73 ft.
Screen 2 - Target: 4.63 ft.
Midpoint to Target: 7.54 ft.
Target to Witness: 1.17 ft.
Barrel Length: 4 in.
Range: 1

Sample/Test Description			Ammunition Description			Chronograph		Residual	Results
Sample Number	Sample Thickness	Sample Weight (lb.)	Shot No.	Caliber	Bullet Wt./Type	TIME ms	VELOCITY fps	Velocity fps	Penetration No Penetration
ASSY 17	0.49"	4.52	1	9mm	124 FMJ	533.6	1073	N/A	No Penetration
ASSY 17	0.49"	4.52	2	9mm	124 FMJ	529.4	1082	N/A	No Penetration
ASSY 17	0.49"	4.52	3	9mm	124 FMJ	511.6	1120	N/A	No Penetration
							-		
							-		
							-		