

Beschussamt Mellrichstadt

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11 OKTOMVRI-EUROKOMPOZIT AD
Aleksandar Makedonski 2/42

MAK-7500 Prilep

Test Report

Determination of the V-50 ballistic limit for body protection material according to STANAG 2920.

Report-no. : 12V070B01#, to order-no.: 8023
Test date ...: 20.03.2012
Tester: Volkheimer, Schmitt

Applicant : 11 OKTOMVRI-EUROKOMPOZIT AD
Manufacturer : 11 OKTOMVRI-EUROKOMPOZIT AD
Sample : Sample 2
Part-no. : -2-

The V-50 ballistic limit is determined by the average of an equal number of highest partial penetration velocities and the lowest complete penetration velocities which occur within a specified velocity spread.



Bötsch



Mellrichstadt, 20.03.2012

The test results are only valid for the samples described in this test report.
The applicability of this test report is restricted to five years from the date of testing. It will expire prematurely, if any alteration or modification to the manufacturing process, materials and/or quality management system could impact the product conformity.
This test report is only valid with the correspondence of the report numbers on all pages and with the official seal.
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Report no. : 12V070B01#
Report part no.:
Date: 20.03.2012

Description of the sample in shooting direction (specification of the manufacturer):

15 layers of aramid fabric, fixed around the edge with adhesive tape
material: HT 840 LS

Dimensions of the sample (mm): 400 x 400
Determined aerial density (g/dm²): 30,9

Test conditions:

Calibre: 5,385mm
Bullet type: acc. to STANAG 2920 A3/6723/1
Bullet mass(g): 1,102
Weapon: test barrel cal. .30, twist length 20 inch
Barrel length(mm): 650

Shooting distance(m): 3,80
Angle of incidence (degree): 90 (0° NATO)

Room temperature(°C): 22
Humidity(%): 35
Sample temperature.....(°C): 20

Conditioning of the sample:
24 hours at a temperature of 20 +/- 2°C and a humidity of 65 +/- 5%

Results:

hit no.	partial penetration V(2,30)		E(2,30) [J]	hit no.	complete penetration V(2,30)		E(2,30) [J]
	[m/s]	[fps]			[m/s]	[fps]	
8	471,0	1545,3	122,2	3	477,0	1565,0	125,4
6	473,0	1551,8	123,3	5	481,0	1578,1	127,5
4	478,0	1568,2	125,9	1	484,0	1587,9	129,1
2	485,0	1591,2	129,6	7	486,0	1594,5	130,1
9	486,0	1594,5	130,1	10	486,0	1594,5	130,1
average	478,6	1570,2	126,2	average	482,8	1584,0	128,4

V-50 Ballistic limit:	[m/s]	[fps]	E-50 [J]
instrumental velocity	V = 480,7	1577,1	127,3
velocity loss	VL = 13,0	42,7	
striking velocity	VS = 467,7	1534,4	120,5