



The Test Center of Bulletproof Equipment of China Ordnance Industry

Test Report

BFJZ (2008) 265

Name:	<u>Ballistic Insert</u>
Type:	<u>RYB 92-08</u>
Client:	<u>Ningbo Rongyi Chemical Fiber Science & Technology Co., Ltd.</u>
Test Aim:	<u>Ballistic Resistance Function</u> <u>Refer to NIJ Standard-0101.04</u>
Standard:	<u>Ballistic Resistance of Personal Body Armor</u>
Date:	<u>Nov.25, 2008</u>



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Type:	<u>RYB 92-08</u>
Client:	<u>Ningbo Rongyi Chemical Fiber Science & Technology Co., Ltd.</u>
Manufacturer:	<u>Ningbo Rongyi Chemical Fiber Science & Technology Co., Ltd.</u>
Brand:	<u>Rongyi Science & Technology</u>
Test Date:	<u>Nov.21, 2008</u>

Test Result

The firing practice test shows that Type RYB92-08 Ballistic Insert (sample), provided by Ningbo Rongyi Chemical Fiber Science & Technology Co., Ltd., be shot by SS109 rifle cartridge fired from 5.56mm M16 automatic rifle at the range of 15m. Test condition is normal temperature (natural temperature). Totally fired 6 rounds and the maximum deformation depth on the artificial body is 26.7mm attacking from the front sample, and no penetration..

The attached chart and pictures No. 1-2 show the details.

Author: *Wen Hongying*

Censor: *Tian Qunyi*

Approved By: *Peng Yuchun*

Test Summary of Ballistic Resistance Specification of Type RYB 92-08 Ballistic Insert

Temperature :4℃

Attached Chart

Ballistic Insert Weight (kg)	Ballistic Insert Area (m ²)	Ballistic Insert Structure		Condition	Shooting Range (m)	Angle of Incidence	Shooting Sequence	Muzzle Velocity (m/s)	Penetrations	Deformation Depth (mm)
		Insert	Thickness (mm)							
1.93	0.075	PE	27.5	Normal Temperature (Natural Temperature)	15	0°	1	931	PP	17.4
							2	946	PP	21.8
							3	935	PP	24.0
							4	950	PP	26.7
							5	942	PP	24.5
							6	942	PP	20.0
Remarks 1. The test conclusion only reacted to the sample. 2. Testing weapon : 5.56mm M16 automatic rifle. 3. Testing ammunition : SS109 rifle cartridge. 4. Keep ammunition at temperature 20 ± 2℃ for 2h before test. 5. Determination of the muzzle velocity with B215/B470 Ballistic Analytic System.										

Shooter: Wang Wen

Operator: Song Qingqing

Measure: Tian Guiyi

Recorder: Song Qingqing

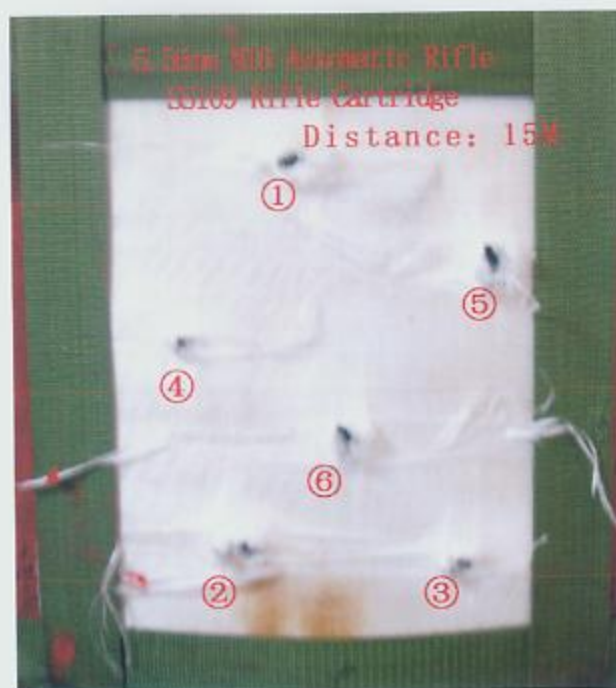


Figure 1
Shot marks on Type RYB92-08
Ballistic Insert from the front attack



Figure 2
Deformation shape on
the artificial body