

Test Report

Name: Ballistic Insert

Type: TAT-BP-5

Test Sort: Commission Test

Client: Tianjin Armorus Textiles Co., Ltd

Date: Jan. 29, 2010


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of China Ordnance Industry**

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Test Report

BFJZ(2010) 027

Page 1 of 4

Name	Ballistic Insert	Type	TAT-BP-5
Client	Tianjin Armor Textiles Co., Ltd	Client Principal	Jinyu Cao
Address	19 East of Dongmaquan, Wuqing D., Tianjin, China	Telephone	022-81115397
Manufacturer	/	Test Sort	Ballistic Resistance Function
Address	/	Telephone	022-81115397
Test Date	Jan.29, 2010	Brand	/
Lot Number	/	Sample Number	1
Sample Place	/	Basic Number	/
Sample Unit	/	Sample Date	/
Standard	Refer to NIJ Standard-0101.04 Ballistic Resistance of Personal Body Armor		
Test item	Bulletproof performance		
Test Result	<p>The type TAT-BP-5 Ballistic Insert (sample), provided by Tianjin Armor Textiles Co., Ltd. It's bulletproof performance has been test by ball firing, 1,2,3 round is 7.62mm ×39mm Rifle Cartridge fired from AK47 7.62mm Assault Rifle. 4, 5,6 round is NATO Cartridge fired from M14 7.62mm Automatic Rifle. The result is no penetration. The maximum deformation depth of ballistic insert is 41.5mm.</p> <p style="text-align: right;">Date: Jan 29, 2010</p>		
Remarks			
<p>Editor: <i>Tian Miao</i> Censor: <i>Tian Guuji</i> Approver: <i>Pengyichun</i></p>			

BULLETPROOF
EQUIPMENT

The Test Center of Bulletproof Equipment of China Ordnance Industry

Test Report

BFJZ(2010) 027

Page 2 of 4

Test place, environment (special requirement of environment) and test equipments	
Test place	The Test Center of Bulletproof Equipment of China Ordnance Industry
	/
Test environment (special requirement of environment)	In the room: temperature 1℃、humidity 26%RH
	/
Test equipments	B215/B470 Ballistic Analytic System Universal standard Measure Electro- balance Testing weapon: AK47 7.62mm Assault Rifle M14 7.62mm Automatic Rifle Testing ammunition: 7.62mm ×39mm Rifle Cartridge NATO Cartridge
Description of sample character	The sample is made up of 25mm PE panel.

EQUIPMENTS



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Test Summary of Type TAT-BP-5 Ballistic Insert

BFJZ(2010)027

Page 3 of 4

Ballistic Insert	Protected area (m ²)	Temperature Condition	Shooting Range (m)	Angle of Incidence	Shooting Sequence	Muzzle Velocity (m/s)	Penetrations	Deformation Depth	
								requirement (mm)	practice measure (mm)
1.804	0.075	Normal Temperature (Natural Temperature)	15	0°	1	712	PP	≤44	22.0
					2	712	PP		25.0
					3	710	PP		27.6
					4	829	PP		41.5
					5	834	PP		38.5
					6	829	PP		35.0



The Test Center of Bulletproof Equipment of China Ordnance Industry

Test Report

BFJZ(2010) 027

Page 4 of 4

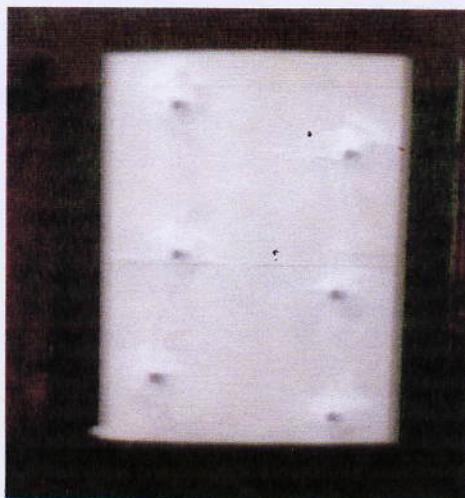


Figure 1

Shot marks on type TAT-BP-5
Ballistic Insert from the front attack



Figure 2

Deformation shape on the artificial body