

# Test Report

Name: Ballistic Insert

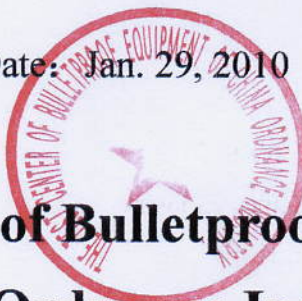
Type: TAT-BP-1

Test Sort: Commission Test

Client: Tianjin Armorus Textiles Co., Ltd

Date: Jan. 29, 2010

**The Test Center of Bulletproof Equipment  
of China Ordnance Industry**



# The Test Center of Bulletproof Equipment of China Ordnance Industry

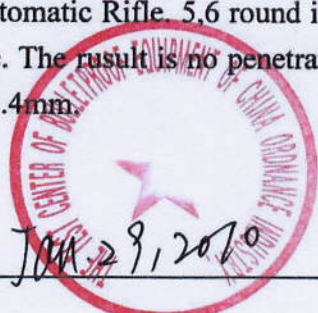
## Test Report

BFJZ(2010) 025

Page 1 of 4

Name	Ballistic Insert	Type	TAT-BP-1
Client	Tianjin Armorus 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
Tes	Jan.27, 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-1 Ballistic Insert (sample), provided by Tianjin Armorus Textiles Co., Ltd. It's bulletproof performance has been test by ball firing, 1,2, round is 7.62mm ×39mm Rifle Cartridge fired from AK47 7.62mm Assault Rifle. 3,4 round is SS109 Rifle Cartridge fired from M16 5.56mm Automatic Rifle. 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 27.4mm.</p> <p style="text-align: right;">Date: <i>JAN 29, 2010</i></p>		
Remarks			
<p>Editor: <i>Tran Mhao</i>      Censor: <i>Tian Guirui</i>      Approver: <i>Peng Yuchun</i></p>			

JPROO  
✓  
✓





# The Test Center of Bulletproof Equipment of China Ordnance Industry

## Test Report

BFJZ(2010) 025

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 0°C、humidity 58%RH
	/
Test equipments	<p>B215/B470 Ballistic Analytic System</p> <p>Universal standard Measure</p> <p>Electro- balance</p> <p>Testing weapon: AK47 7.62mm Assault Rifle</p> <p style="padding-left: 150px;">M16 5.56mm Automatic Rifle</p> <p style="padding-left: 150px;">M14 7.62mm Automatic Rifle</p> <p>Testing ammunition: 7.62mm ×39mm Rifle Cartridge</p> <p style="padding-left: 150px;">SS109 Rifle Cartridge , NATO Cartridge</p>
Description of sample character	<p>The sample is made up of 9.0mm chinaware and 7.0mm PE panel.</p>

F-EQU

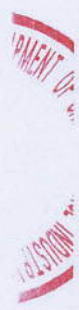
# The Test Center of Bulletproof Equipment of China Ordnance Industry

## Test Summary of Type TAT-BP-1 Ballistic Insert

BFJZ(2010)025

Page 3 of 4

Ballistic Insert Weight (kg)	Protected area (m <sup>2</sup> )	Temperature Condition	Shooting Range (m)	Angle of Incidence	Shooting Sequence	Muzzle Velocity (m/s)	Penetrations	Deformation Depth	
								requirement (mm)	measure practice (mm)
2.714	0.075	Normal Temperature (Natural Temperature)	15	0°	1	710	PP	≤44	10.3
					2	711	PP		16.5
					3	937	PP		10.8
					4	940	PP		13.5
					5	829	PP		23.2
					6	830	PP		27.4





# The Test Center of Bulletproof Equipment of China Ordnance Industry

## Test Report

BFJZ(2010) 025

Page 4 of 4



Figure 1

Shot marks on type TAT-BP-1  
Ballistic Insert from the front attack

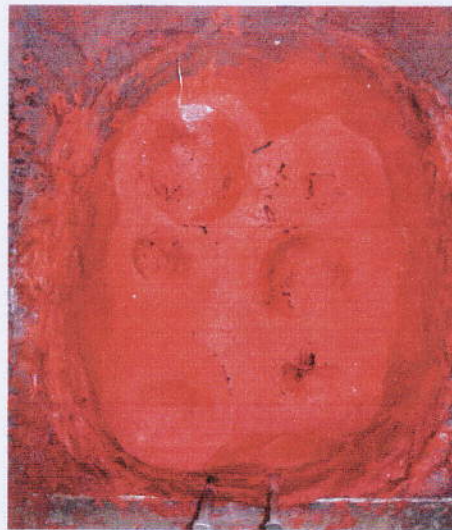


Figure 2

Deformation shape on the artificial body

CHINA ORDNANCE INDUSTRY