



# Test Report

BJZ(2015) 300

Name: Ballistic Insert

Type: BP6-170

Test Sort: Commission Test

Client: Tianjin Armorus Textiles Co., Ltd.

Date: May, 15, 2015

Test Center of Ordnance and  
Equipment Research Institute,  
China Ordnance and Equipment Group

Quality Supervision and Inspection  
Center for Special Production of  
China Ordnance and Equipment



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Name	Ballistic Insert	Type	BP6-170
Client	Tianjin Armorus Textiles Co., Ltd.	Client Principal	Jinyu Cao
Address	8 Cuihuo Rd, Heibeitun Down Town, Wuqing D, Tianjin, China	Telephone	13662134855
Manufacturer	Tianjin Armorus Textiles Co., Ltd.	Test Sort	Commission Test
Test Date	May,6, 2015	Brand	/
Lot Number	/	Sample Quantity	1
Serial Number	YP150506-1	Sample State	good
Standard	NIJ Standard-0101.06 Ballistic Resistance of Body Armor		
Test item	Bulletproof Performance		
Test Result	<p>The type BP6-170 ballistic insert(sample), which provided by Tianjin Armorus Textiles Co., Ltd., has been tested by 7.62×39mm rifle cartridge with AK47 7.62mm assault rifle, SS109 rifle cartridge with M16 5.56mm automatic rifle, 7.62mm NATO cartridge with M14 7.62mm automatic rifle at 15m. It shot 2 rounds each rifle, no penetrations. Test condition is normal temperature. The maximum depth on the backing material is 39.8mm. See table and pictures 1-2.</p>		
Remarks			

Editor: Zheng Mengxing

Censor: Yuan Hong

Approver: Zhou Hongyuan

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Test place, environment ( special requirement of environment ) and test equipments	
Test place	Quality Supervision and Inspection Center for Special Production of China Ordnance Equipment
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Test environment ( special requirement of environment )	Indoor: temperature 21℃、 humidity 52%RH
	/
Test equipments	Universal standard Measure Tools Ballistic Analytic System(No.329000001) BWS s-F Electro- balance(No.BQJL-0022) Testing weapon: AK47 7.62mm assault rifle M16 5.56mm automatic rifle M14 7.62mm automatic rifle Testing ammunition: 7.62 × 39mm rifle cartridge SS109 cartridge 7.62mm NATO cartridge
Character & Structure of sample	The sample is made of 4.0mm carborundum and 14.3mm PE.

# Test Table of Type BP6-170 Ballistic Insert

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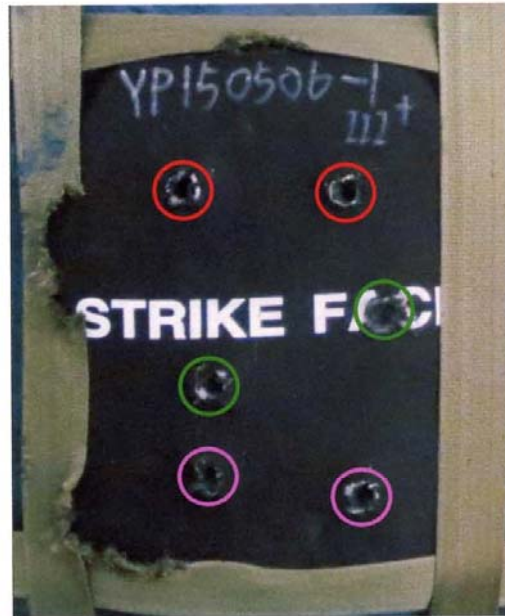
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Serial Number	Ballistic Insert Weight (kg)	Protected Area (m <sup>2</sup> )	Sample Condition	Shooting Distance (m)	Angle of Incidence	Testing Ammunition	Shooting Sequence	Muzzle Velocity (m/s)	Penetrations	BFS Depth (mm)	
YP150506-1	1.68	0.07	Normal Temperature	15	0°	7.62×39mm rifle cartridge	1	711	NP	21.2	
							2	710	NP	19.8	
							SS109 rifle cartridge	1	941	NP	26.1
								2	946	NP	30.4
						7.62mm NATO cartridge	1	856	NP	34.3	
							2	854	NP	39.8	

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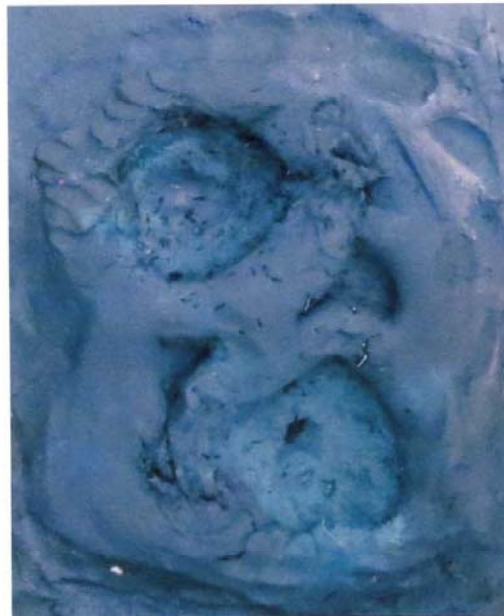


○ 7.62 × 39mm rifle cartridge

○ SS109 cartridge

○ 7.62mm NATO cartridge

Picture 1 Impact Side



Picture 2 Backing Material