

# Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries

## Certificate of Test

Page 1 of 4

Cert. №: LF20200799

<b>Sample Name</b>	Ballistic Insert	<b>Test Type</b>	Consignation Test
<b>Date Received</b>	05/19/2020	<b>Test Date</b>	05/19/2020
<b>Sample Amount</b>	1	<b>Sample No.</b>	LR0424-1
<b>Test Standard</b>	NIJ 0101.06 Ballistic Resistance of Body Armor Level IV		
<b>Evaluation Criterion</b>	NIJ 0101.06 Ballistic Resistance of Body Armor Level IV		
<b>Categories</b>	Ballistic Resistance		
<b>Test Conclusion</b>	<p>The Ballistic Insert (Sample No.: LR0424-1) provided was tested according with NIJ 0101.06 Level IV and client requirements. Under normal temperature and humidity, no perforation occurs after 3 fair shots at the sample with 7.62mm API, no Backface Signature (BFS) depth exceeds 44mm and the maximum BFS depth is 33.5mm. The test results show the ballistic resistance of the sample satisfies the requirements of NIJ 0101.06 Level IV.</p> <p style="text-align: right;">Laboratory configuration, sample description and test results are showed from Page 2 to 4.</p>		

**Physical and Chemical Inspection Center  
in Non-metals Material of Ordnance Industries  
Certificate of Test**

Page 2 of 4

Cert. №: LF20200799

<b>Laboratory Configuration</b>	
<b>Test Unit</b>	Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries
<b>Ambient Test Conditions</b>	Temperature: 19°C; Relative Humidity: 56%.
<b>Setup</b>	Weapons: Ballistic Barrel Bullets: 7.62mm API Electrical chronometer (No.:6015) Meter Rule (No.:LS02061) Vernier Caliper (No.:LG01303) Electronic Balance( No.:F40604303)
<b>Test Range</b>	15m
<b>Angle of Incidence</b>	0°
<b>Sample Description</b>	
<b>Sample No.</b>	LR0424-I
<b>Configuration</b>	Al <sub>2</sub> O <sub>3</sub> Ceramic / PE
<b>Remarks</b>	※ Client requirements: The sample should be shot with 3 rounds of 7.62mm API.

**Physical and Chemical Inspection Center  
in Non-metals Material of Ordnance Industries  
Certificate of Test**

Page 3 of 4

Cert. №: LF20200799

**Results of Ballistic Resistance Test**

<b>Sample Parameters</b>				
<b>Sample No.</b>	<b>Maximum Size(mm×mm)</b>	<b>Thickness(mm)</b>	<b>Weight (g)</b>	<b>Conditioning</b>
LR0424-1	300×245	23.5	2787	Normal Temperature and Humidity
<b>Test Results</b>				
<b>Shot No.</b>	<b>Velocity(m/s)</b>	<b>Results</b>	<b>BFS Depth(mm)</b>	
1	870.3	Stop	26.4	
2	871.5	Stop	29.2	
3	875.7	Stop	33.5	
	Blank			
<b>Remarks</b>	Clay Drops: 19.4mm, 19.7mm, 19.2mm, 19.5mm, 19.0mm.			