



Industry & Facilities Division

Third Party Inspection Report

Page 1 of 10

INSPECTION REPORT Nr INS/SD&HN-17/543	Revision Nr 0
<input type="checkbox"/> Initial <input type="checkbox"/> Interim <input checked="" type="checkbox"/> Final <input type="checkbox"/> Resident	
Inspection requested by: (BV CO Final Client): <i>Shandong Nanhai Airbag Engineering Co., Ltd.</i>	
Inspection performed as Recognised Authority: <input checked="" type="checkbox"/> Yes, :(Recognition) <input type="checkbox"/> No	
BV Job Nr: (unique identifier from PCM – to be completed by BV Office) <i>INS/SD&HN-17/543</i>	

Project: TPI for Airbag	IPO Ref (If applicable): N/A <i>(BV internal P/o)</i>
BV Client: <i>Shandong Nanhai Airbag Engineering Co., Ltd.</i>	P/o nr: <i>INS/SD&HN-17/543</i> <i>(client to BV)</i>
Manufacturer/Vendor: <i>Shandong Nanhai Airbag Engineering Co., Ltd.</i>	P/o nr: / <i>(client to Manufacturer)</i>
Sub-Vendor (If applicable): N/A	
Inspection Location: <i>Zhangqiu County, Jinan, China.</i>	Previous Inspection (If applicable): <i>(Date)</i>
Inspection performed on: <i>Nov.22nd, 2017</i>	Next Inspection (If applicable): <i>(Date) N/A</i>

MATERIAL / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY	QTY
<input type="checkbox"/> Refer to attachment section J instead <i>(Indicate if separate material list is provided in attachment)</i>		As per P/O	Offered for inspection
Airbag	2.5mD*24mL	14pcs	2pcs



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

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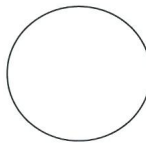
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Industry & Facilities Division
Third Party Inspection Report

INSPECTION REPORT Nr INS/SD&HN-17/367	Revision Nr
---------------------------------------	-------------

A – INSPECTION RESULT		
<input checked="" type="checkbox"/> Satisfactory (Without comments)	<input type="checkbox"/> Satisfactory with comments (Any of trailing Punch or Non Conformity items is still open)	<input type="checkbox"/> Not Satisfactory (NCR raised during the inspection)
Inspection Summary: (for details refer to section E) BV inspector inspected the Airbag listed above, the final inspection result is satisfactory.		
Open Non Conformities:	<input type="checkbox"/> Yes, details in section G	<input checked="" type="checkbox"/> No
Open Punch List Items:	<input type="checkbox"/> Yes, details in section H	<input checked="" type="checkbox"/> No
Release Note Issued:	<input type="checkbox"/> Yes, number(s): (Release Note number)	<input checked="" type="checkbox"/> No
BV Stamping:	<input type="checkbox"/> Yes, 	<input checked="" type="checkbox"/> No, 

On behalf of Bureau Veritas BV Inspector: Ziming Zhao (Name and Signature) 	On behalf of Bureau Veritas BV Coordinator: Yizheng Guo (Name and Signature) 
BV Office: Qingdao	Inspection Report Date: Nov.22 nd , 2017



Industry & Facilities Division
Third Party Inspection Report

INSPECTION REPORT Nr INS/SD&HN-17/367	Revision Nr
---------------------------------------	-------------

Distribution: <input checked="" type="checkbox"/> CLIENT <input type="checkbox"/> BV <input checked="" type="checkbox"/> MANUFACTURER <input type="checkbox"/> OTHER:	Attachments Report: <input type="checkbox"/> Yes, details in section J <input checked="" type="checkbox"/> No
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B - REFERENCE DOCUMENTATION:					
<input type="checkbox"/> Refer to attachment section J instead					
<i>(Indicate if separate document list is provided in attachment)</i>					
Title	Reference n°	Rev.	Approval status	Approved by	Date
PO (client to BV)	INS/SD&HN-17/543	1	Approved	YDST and BV	2017-11-17

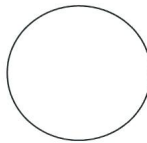
C – ATTENDEES		
Name	Position	Representing
Kai Jiang	inspector	BV
Mr.Wang	manager	Shandong Nanhai Airbag Engineering Co., Ltd.

D - MEASURING & TESTING EQUIPMENT USED	
<input type="checkbox"/> Refer to attachment section J instead	
<i>(Indicate if separate equipment list is provided in attachment)</i>	

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Third Party Inspection Report

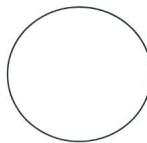
INSPECTION REPORT Nr INS/SD&HN-17/367	Revision Nr
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Equipment Type	Equipment Identity n°	Last Calibration Date	Expiry Date
Vernier caliper	1403024	2017-02-25	2018-02-24
Steel tape	/	2017-09-22	2018-03-21
Hardness tester	92752	2017-09-13	2018-09-12
Tensile testing machine	2013-01113	2017-02-18	2018-02-17
Pressure gauge	4385	2017-09-07	2018-03-06
Pressure gauge	4335	2017-09-07	2018-03-06

E - INSPECTION DETAILS
<p>Description of the inspections carried out:</p> <ul style="list-style-type: none">➤ Manufacturing Progress Status All Airbags were ready for inspection when BV inspector arrived at the factory, Nov 22nd, 2017.➤ Details of inspection activities carried out with reference to ITP (Each activity elaborated in detail) <p>1. Visual inspection and dimensional inspection</p> <p>BV inspector carried out visual inspection for Airbag. There was no defects were found on the surface.</p>

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Industry & Facilities Division
Third Party Inspection Report

INSPECTION REPORT Nr INS/SD&HN-17/367	Revision Nr
---------------------------------------	-------------

BV inspector carried out dimensional inspection according to drawing when the inner pressure was 1.2 Mpa, including length and diameters for Airbags. The result complied with drawing and ISO14409. Details were as follows:

Type	Diameter(mm)	Length(mm)	Result
	2500(+3%,-3%)	24000(+3%,-3%)	
2.5mD*24mL	2552	24588	Pass
	2551	24512.5	Pass

2. Witness air tightness test

BV inspector witnessed air tightness test. The Airbag was filled with air and the pressure was 1.2 Mpa, the duration was 1hour, and during test period, no leakage was found and the pressure didn't get down. So the result was acceptable.

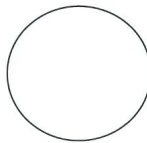
3. Witness rubber material test

The test specimens were ready for inspection when BV inspector arrived, BV inspector witnessed rubber material test only, including tensile strength/elongation, hardness test and tear test. The result was acceptable. Details see below table.

Test Item		Required Value	Test Result	Testing Method
Rubber	Hardness(Shore A)	60 ± 10	58	ISO7619-1:2010, type A durometer
	Tensile Strength (Mpa)	≥18	20.43	ISO37:2011, type1
	Elongation at break (%)	≥400	569.30	ISO37:2011, type1
	Tear Resistance(N/cm)	≥400	863.5	ISO34-1:2010, method B

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Industry & Facilities Division

Third Party Inspection Report

INSPECTION REPORT Nr INS/SD&HN-17/367	Revision Nr
---------------------------------------	-------------

4. Witness Synthetic-tyre-cord test

The test specimens were ready for inspection when BV inspector arrived, BV inspector witnessed Synthetic-tyre-cord test only, including tensile strength, Diameter and Density. The result was acceptable. Details see below table.

Test Item		Required Value	Test Result	Testing Method
Synthetic-tyre-cord	Tensile Strength (N)	≥205	317.75	GB/T9102
	Diameter (mm)	0.78 ± 0.04	0.78	
	Density(PCS/100mm)	90 ± 5	90	

F – HEALTH, SAFETY & ENVIRONMENT COMMENTS

(Comment on Observations and Actions Taken During the Inspection)

Enter the workshop, wear safety helmet and breathing mask, wear eye protector.

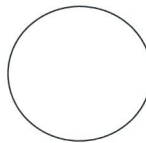
G- NON CONFORMITIES

Refer to attachment section J instead
(Indicate if separate punch list is provided in attachment)

Item	Description	Status	Raised on	Report	Closed on	Report Nr.	Comments
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Industry & Facilities Division

Third Party Inspection Report

INSPECTION REPORT Nr INS/SD&HN-17/367	Revision Nr
---------------------------------------	-------------

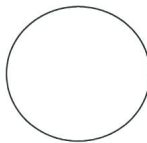
				Nr.			
					(DD-MM-YY)		

H – PUNCH LIST ITEMS							
<input type="checkbox"/> Refer to attachment section J instead (Indicate if separate punch list is provided in attachment)							
Item	Description	Status	Raised on	Report Nr.	Closed on	Report Nr.	Comments
		(Open) (Closed) (Quality Save)	(DD-MM-YY)		(DD-MM-YY)		
	(Add lines for additional records)						

I - DIGITAL PICTURES

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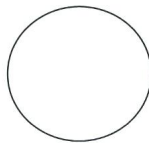
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INSPECTION REPORT Nr INS/SD&HN-17/367	Revision Nr
---------------------------------------	-------------



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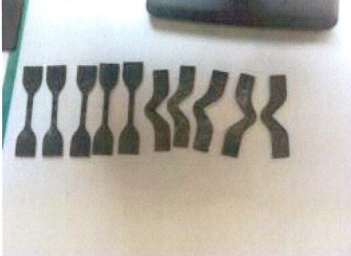







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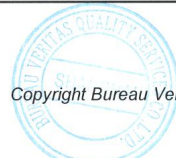
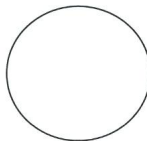
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INSPECTION REPORT Nr INS/SD&HN-17/367	Revision Nr
---------------------------------------	-------------

	
Rubber material test	Rubber material test
	
Rubber material test	Rubber material test
	
Synthetic-tyre-cord test	Synthetic-tyre-cord test

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Industry & Facilities Division
Third Party Inspection Report

Page 10 of 10

INSPECTION REPORT Nr INS/SD&HN-17/367	Revision Nr
---------------------------------------	-------------

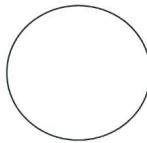
J – ATTACHMENTS			
Item	Attachment Name	Total Pages	Description

END OF REPORT

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