

TEST RESULTS and REPORT

for

Wendy's Pancake Welding Shields

Z model - Black Front and Side Piece

by



COLTS Laboratories maintains A2LA accreditation to ISO/IEC 17025 for the tests listed on Certificate # 1612.01. Any tests not included on this certificate have been identified on the appropriate test result page.

Also certified for testing by the Safety Equipment Institute

Z-WND040810-01

- Results in this report only relate to the samples analyzed.
- This report shall not be reproduced, except in full, without written approval from COLTS Laboratories.
- Unless otherwise requested, test samples will be discarded 21 days from the report date.

COLTS Laboratories

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A2LA Accredited-Certificate # 1612.01

SUMMARY REPORT

Wendy's Pancake Welding Shields Z-WND040810-01

Project ID	Test /Model(s)	Results Pass / Fail	Reason	Page
Z-WND040810-01-01	ANSI Z87.1-2003 Welding Helmet Shell Tests Z model - Black Front and Side Piece	Pass		1

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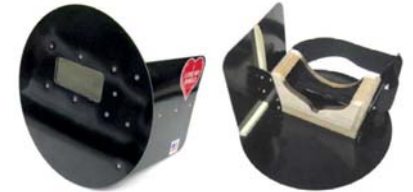
Report Summary

Report To:

Wendy's Pancake Welding Shields
7865 Terry Road
Terry, MS 39170
Attn: David Keup

PROJECT

Report of: ANSI Z87.1-2003 Welding Helmet Shell Tests
of Model(s): Z model - Black Front and Side Piece
Project ID(s): Z-WND040810-01-01



Date: Wednesday, May 05, 2010

On Thursday, April 08, 2010, COLTS Laboratories received Welding Helmets: Z model - Black Front and Side Piece from Wendy's Pancake Welding Shields. From Thursday, April 08, 2010 through Wednesday, May 05, 2010 COLTS Laboratories tested these Welding Helmets in accordance with ANSI Z87.1-2003.

Final Conclusion:

The Welding Helmets: Z model - Black Front and Side Piece do comply with ANSI Z87.1-2003 for the test(s) performed for ANSI Z87.1-2003 Welding Helmet Shell Tests.

Please contact us should you have any questions concerning this report.

Respectfully submitted,

COLTS Laboratories

Daryl Neely
Vice-President & COO

John M. Young
President & CEO



Lab Temp (°C) : 23

Lab Rh : 49

Report of: ANSI Z87.1-2003 Welding Helmet Shell Tests

Test/Property	ANSI Z87-1 Paragraph	Requirement	Test Results	Acceptance
High Mass Impact	10.2.1.1 10.3.1.1	No piece shall be detached from the inner surface of any helmet component and the lens shall be retained in the helmet.		
		Left Eye Sample 1	Acceptable	Pass
		Left Eye Sample 2	Acceptable	Pass
		Right Eye Sample 1	Acceptable	Pass
		Right Eye Sample 2	Acceptable	Pass
Test completed on 01/28/2010 (Z-WND100709-01)				
High Velocity Impact	10.2.1.2	No contact with the eye of the headform is permitted as a result of impact. No piece shall be detached from the inner surface of any helmet component and the lens shall be retained in the frame. In addition, the lens closest to the eye shall not fracture.		
		Left Eye Nasal 15 deg	153 fps	Pass
		Left Eye Nasal 0 deg	151 fps	Pass
		Left Eye Temporal 15 deg	151 fps	Pass
		Left Eye Temporal 30 deg	151 fps	Pass
		Left Eye Temporal 45 deg	149 fps	Pass
		Left Eye Temporal 60 deg	150 fps	Pass
		Left Eye Temporal 75 deg	150 fps	Pass
		Left Eye Temporal 90 deg	151 fps	Pass
		Left Eye 10 mm Above at 90 deg Temporal	151 fps	Pass
		Left Eye 10 mm Below at 90 deg Temporal	150 fps	Pass
		Right Eye Nasal 15 deg	151 fps	Pass
		Right Eye Nasal 0 deg	151 fps	Pass
		Right Eye Temporal 15 deg	152 fps	Pass
		Right Eye Temporal 30 deg	151 fps	Pass
		Right Eye Temporal 45 deg	152 fps	Pass
		Right Eye Temporal 60 deg	151 fps	Pass
		Right Eye Temporal 75 deg	151 fps	Pass
		Right Eye Temporal 90 deg	151 fps	Pass
		Right Eye 10 mm Above at 90 deg Temporal	150 fps	Pass
		Right Eye 10 mm below at 90 deg Temporal	150 fps	Pass
Flammability	10.6	The material shall not burn at a rate greater than 76 mm (3 in) per minute when tested in accordance with section 14.6. This test is intended to measure the rate of burning or extent of burning of plastics used in protectors.		
		Lens Housing	Self Extinguished	Pass
		Headgear	Self Extinguished	Pass
		Shell	Self Extinguished	Pass

Report To: Wendy's Pancake Welding Shields

Project No. Z-WND040810-01-01



A2LA Accredited-Cert .#1612.01

Sample ID:
Z model - Black Front and Side Piece

Report Date: 5/5/10

Lab Temp (°C) : 23

Lab Rh : 49

Report of: ANSI Z87.1-2003 Welding Helmet Shell Tests

Test/Property	ANSI Z87-1 Paragraph	Requirement	Test Results	Acceptance
Corrosion Resistance	10.7	Metal components used in welding helmets shall be corrosion resistant to the degree that the function of the welding helmet shall not be impaired by the corrosion.	Acceptable	Pass
Cleanability	10.8	The function and markings of the welding helmet shall not be impaired by the cleaning process.		
		Markings	Acceptable	Pass
		Function	Acceptable	Pass
Transmittance of Non-Lens Areas	10.9.1	Non-lens areas of welding helmets with removable lenses shall transmit no more optical radiation than that permitted by table 1 for shade number 14. Non-lens areas of welding helmets with non-removable lenses shall transmit no more optical radiation than that of their lens.	Acceptable	Pass
			Test completed on 10/16/2009 (Z-WND100709-01)	
Light Tightness	10.9.2	All non-lens areas of welding helmets shall prevent the direct penetration of visible light. No direct visible light shall enter between the lens and the lens holder.	Acceptable	Pass
Markings	10.11	All markings shall be permanent, legible, and placed so that interference with the vision of the wearer is minimal.	Acceptable	Pass
Welding Helmet Markings	10.11.1	The welding helmet, including the headgear, shell and lens housing or carrier, shall bear the manufacturer's identifying mark or symbol and shall be marked "Z87" indicating compliance with this standard.		
		Headgear		N/A
		Shell	Acceptable	Pass
		Lens Housing / Carrier	Acceptable	Pass