

## SAFETY AND COMPLIANCE TESTING FOR SURESTOP

<b>Tested Sample(s)</b>	: Bicycle Brake Pads
<b>Brand</b>	: SureStop
<b>Model</b>	: SureStop Brakes
<b>Color</b>	: Not Specified
<b>Size</b>	: Not Specified
<b>Vendor P/N</b>	: Not Specified
<b>Country of Origin</b>	: Not Specified
<b>Age Grading</b>	: Not Specified
<b>Children's Product</b>	: Not Specified

Prepared For:

**SureStop**  
8F-2, No. 77 Shizeng N. 1<sup>st</sup> Road  
Taichung, Taiwan



**Issue Date: 08 May 2015**

**Final Report: 659.0001.HZN**

This document shall not be reproduced except in full without written approval from ACT Lab LLC

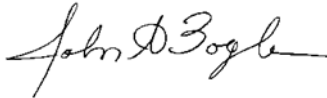


This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009.) The Joint Communiqué is available on publications and resources page of the ILAC website at <http://www.ilac.org>. Accreditation listing and certificate can be found at <http://www.iasonline.org>.

## CONCLUSION

<b>(659.0001) – SureStop, SureStop Brakes</b>		
<b>Purpose of Test –</b> Each test performed is intended to check compliance with the following:	<b>Result</b>	<b>Comment</b>
HZN ISO 4210-14: Cycles – Safety Requirements for Bicycles	C	

President,



**John A. Bogler**

### SAMPLE IDENTIFICATION

<b>Brand:</b>	SureStop	<b>Job No.:</b>	659.0001
<b>Model Name:</b>	SureStop Brakes	<b>Sample ID No.:</b>	659.0001.001
<b>Vendor Name:</b>	SureStop	<b>Type:</b>	Bicycle Brake Pads
<b>Vendor P/N:</b>	Not Specified	<b>Size (c):</b>	Not Specified
<b>Manufacturer:</b>	Not Specified	<b>Color(s):</b>	Not Specified
<b>Manufacturer P/N:</b>	Not Specified	<b>Weight (g):</b>	Not Specified
<b>Serial No.:</b>	Not Specified	<b>Country of Origin:</b>	Not Specified





**DATE AND PLACE OF TEST**

Sample(s) received on : 28 January 2014  
Testing was initiated on : 31 January 2014  
Testing was completed on : 31 January 2014  
Testing was performed at : Taicang ACT Sporting Goods Testing Co., Ltd.  
Taicang City, Suzhou, Jiangsu Province, China

**TEST METHODS**

Method for each test conducted is as follows:

- HZN ISO 4210-14 test was performed according to the ISO Cycles-Safety Requirements for Bicycles (2014E) Requirements for Bicycles standard:
  - Section 4.6 Brakes.

**TEST RESULTS**

<b>C:</b> Compliant; Product meets specified standard <b>NC:</b> Non-Compliant; Product does not meet specified standard <b>NA:</b> Not Applicable to this design <b>NR:</b> Not Requested by the Applicant <b>NP:</b> Not Present	<b>ND:</b> None Detected <b>IC:</b> Inconclusive <b>NT:</b> Not Tested <b>FTR:</b> Further Testing Recommended <b>PPM:</b> Parts Per Million <b>*:</b> See Comments
--	--



## HZN ISO 4210-14: BICYCLE TEST

HZN ISO 4210-2014			
Ref. #	Test Description	Result	Observations and Notes
4.6	Brakes	C	
4.6.1	Braking systems	C	
4.6.2	Hand-operated brakes	C	
4.6.2.1	Brake lever position	NA	
4.6.2.2	Brake lever grip dimension	NA	
4.6.3	Attachment of brake assembly and cable requirements	NA	
4.6.4	Brake-block and brake-pad assemblies - Security test	C	
4.6.5	Brake adjustment	C	
4.6.6	Hand-operated braking system - Strength test	C	
4.6.7	Back-pedal braking system - Strength test	C	
4.6.7.1	General	C	
4.6.7.2	Requirement	C	
4.6.8	Braking performance	C	
4.6.8.1	General - Track or Machine	C	
4.6.8.1.1	Track test	C	
4.6.8.1.2	Machine test	C	
4.6.8.2	Smooth, safe-stop characteristics	C	
4.6.8.3	Ratio between wet and dry braking performance - Track	C	
	Ratio between wet and dry braking performance - Machine	C	
4.6.9	Brakes - Heat-resistance test	C	
4.6.9.1	General - Disc, Hub and Thermoplastic rims	NA	
4.6.9.2	Requirement	C	

HZN ISO 4210 Safety Requirements & Test Methods: Brakes						
Sample	Conditions	Run	Speed (RPM)	Speed (Km/hr)	Stopping Distance (m)	Corrected Distance (m)
AA10165	Dry Front & Rear Brakes	1	121.0	15.0	1.98	2.08
		2	134.0	16.6	2.26	1.92
		3	131.0	16.2	2.21	1.97
		4	131.0	16.2	2.46	2.21
		5	130.0	16.1	2.24	2.03
		<b>AVERAGE</b>	<b>129.4</b>	<b>16.0</b>	<b>2.23</b>	<b>2.04</b>



<b>HZN ISO 4210 Safety Requirements &amp; Test Methods: Brakes</b>						
<u>Sample</u>	<u>Conditions</u>	<u>Run</u>	<u>Speed (RPM)</u>	<u>Speed (Km/hr)</u>	<u>Stopping Distance (m)</u>	<u>Corrected Distance (m)</u>
AA10166	Dry Front & Rear Brakes	1	124.0	15.3	1.93	1.91
		2	130.0	16.1	1.93	1.72
		3	132.0	16.3	2.26	1.98
		4	131.0	16.2	2.01	1.77
		5	132.0	16.3	2.16	1.88
		<b>AVERAGE</b>	<b>129.8</b>	<b>16.0</b>	<b>2.06</b>	<b>1.85</b>
AA10166	Dry Rear Brakes	1*	132.0	16.3	3.43	3.12
		2	127.0	15.7	2.79	2.71
		3	129.0	15.9	2.79	2.62
		4	129.0	15.9	3.25	3.09
		5	128.0	15.8	3.20	3.09
		<b>AVERAGE</b>	<b>129.0</b>	<b>15.9</b>	<b>3.09</b>	<b>2.93</b>

<b>HZN ISO 4210 Safety Requirements &amp; Test Methods: Brakes</b>						
<u>Sample</u>	<u>Conditions</u>	<u>Run</u>	<u>Speed (RPM)</u>	<u>Speed (Km/hr)</u>	<u>Stopping Distance (m)</u>	<u>Corrected Distance (m)</u>
AA10165	Wet Front & Rear Brakes	1	130.0	16.1	2.08	1.87
		2	132.0	16.3	2.21	1.93
		3	135.0	16.7	2.18	1.81
		4	130.0	16.1	2.39	2.18
		5	131.0	16.2	2.31	2.07
		<b>AVERAGE</b>	<b>131.6</b>	<b>16.2</b>	<b>2.23</b>	<b>1.97</b>
AA10166	Wet Front & Rear Brakes	1	134.0	16.6	1.85	1.53
		2	129.0	15.9	1.60	1.41
		3	131.0	16.2	1.70	1.46
		4	132.0	16.3	1.73	1.47
		5	133.0	16.4	1.32	1.05
		<b>AVERAGE</b>	<b>131.8</b>	<b>16.3</b>	<b>1.64</b>	<b>1.38</b>
AA10166	Wet Rear Brakes	1	129.0	15.9	3.38	3.22
		2	132.0	16.3	3.35	3.04
		3	130.0	16.1	3.48	3.27
		4	126.0	15.6	2.80	2.77
		5	133.0	16.4	3.25	2.90
		<b>AVERAGE</b>	<b>130.0</b>	<b>16.1</b>	<b>3.25</b>	<b>3.04</b>

\*\*\*\*\*

**END OF REPORT**