

Test Report

No.: SDHL1805010117FT

Date: Jun.05, 2018

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WTHUS PRECISION MACHINERY CO., LTD
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 FOSHAN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : GAS SPRING
 Buyer Item No. : WTS CLASS 4
 Sample Receiving Date : May 15, 2018
 Test Performing Date : May 15, 2018 to Jun.05, 2018

Test Result Summary

Test(s) Requested	Result(s)
Clause 5, 7, 8 and 10.3 of ANSI/BIFMA X5.1-2017	PASS

Summary:

1. For further details, please refer to the following page(s).

Signed for and on behalf of
 Shunde Branch
 SGS-CSTC Co., Ltd.

Hary Nie
 Approved signatory



SGS-CSTC (Shunde) Technical Services Co., Ltd.
 Shunde Branch Harimies

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TESTS AND RESULTS

Test Conducted:

Clause 5, 7, 8 and 10.3 of ANSI/BIFMA X5.1-2017 General-Purpose Office Chairs – Tests.

No. of Sample:

1 piece (Sample 1). For more sample information and pictures, please refer to the following page.

Test and Requirements	Test Results
5 Backrest Strength Test - Static - Type I and II	
5.4.1 Functional Load There shall be no loss of serviceability to the chair when 667 N (150 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 70 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 70 degrees ± 10 degrees throughout the loading of the backrest.	PASS
5.4.2 Proof Load There shall be no sudden and major change in the structural integrity of the chair, loss of serviceability is acceptable, when 1001 N (225 lbf.) is applied to the backrest at the specified position for one (1) minute. With the backrest at its back stop position, apply a force that is initially 70 degrees ± 10 degrees to the plane of the backrest. The force is not intended to be maintained at 70 degrees ± 10 degrees throughout the loading of the backrest.	PASS
7 Drop Test - Dynamic	
7.4.1 Functional Load Test There shall be no loss of serviceability when a test bag weighing 102 kg (225 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.	PASS
7.4.2 Proof Load Test There shall be no sudden and major change in the structural integrity of the chair. Loss of serviceability is acceptable when a test bag weighing 136 kg (300 lb.) is free fell from 152 mm (6 in.) above the uncompressed seat to the specified position on seat. Remove the bag, and set height to its lowest position and repeat the test for chairs with seat height adjustment features.	PASS
8 Swivel Test – Cyclic There shall be no loss of serviceability after 60,000cycles of rotation (360°) at a rate between 5 and 15 rotations per minute under a 122 kg (270 lb.) load on the seat. If the seat height is adjustable set the height to its lowest position, for all chairs, continue the test for an additional 60,000 cycles to a total of 120,000 cycles.	PASS



Test and Requirements	Test Results
<p>10.3 Impact Test There shall be no loss of serviceability to the chair after a test bag weighing 57kg (125lbs.) is free fell from 36 mm (1.4 in.) above the uncompressed seat to the specified position on seat for 100,000 cycles. The drop height and/or seat height shall be adjusted during the test if the drop height changes by more than 13 mm (0.5 in.). The cycling device shall be set at a rate between 10 and 30 cycles per minute. <i>Note: Chairs with less than 44 mm (1.75 in.) of cushioning materials in the seat shall have foam added to bring total cushioning thickness to 50 mm ± 6 mm (2 in. ± 0.25 in.). Any additional foam added to the top of the seat shall have a 25% Indentation Force Deflection (IFD) of 200 N ± 22 N (45 lbf. ± 5 lbf.). Flexible seat surfaces (i.e., mesh, flexible plastic, etc.) are not considered cushioning materials.</i></p>	<p>PASS</p>

Remark:

1. Only assess the gas lift submitted by applicant, the other components needed in the test are provided by lab;
2. For the sample information and pictures, please refer to the following page.



SAMPLE INFORMATION AND PICTURES

Weight: 1.05 kg

Overall Dimensions: /

Other Dimensions: /

Sample as Received



End of Report

