

TEST REPORT

Report No.: STE08192535S

Product: Office chair

Model No.: IC007, (others refer to page 2)

Prepared for: Hewei Technology Development Co., Ltd

Address: No. 200, Su'ao Village, Taoyuan Town, Heshan City, Jiangmen, Guangdong Province, China

Prepared by: Shenzhen STE Testing Laboratory Co., Ltd.

Lab Location: 3/F, Building 9, Hongde Factory, No. 63 Yuchang Road, Niuahu Community, Guanlan Street, Longhua District, Shenzhen, China

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TEST REPORT

CLEANROOM PARTICLE COUNT

ISO 8 CLASSIFICATION

Report Number.....: STE08192535S

Tested by (name + signature).....: Plum Xiao / Test engineer

Approved by (name + signature).....: Allen Huang / Project manager

Date of issue.....: September 05, 2025

Total number of pages.....: 11

Testing Laboratory: **Shenzhen STE Testing Laboratory Co., Ltd.**

Address: 3/F, Building 9, Hongde Factory, No. 63 Yuchang Road, Niuhe Community, Guanlan Street, Longhua District, Shenzhen, China

Applicant's name.....: **Hewei Technology Development Co., Ltd**

Address.....: No. 200, Su'ao Village, Taoyuan Town, Heshan City, Jiangmen, Guangdong Province, China

Manufacturer's name.....: **Hewei Technology Development Co., Ltd**

Address.....: No. 200, Su'ao Village, Taoyuan Town, Heshan City, Jiangmen, Guangdong Province, China

Test specification:

Standard.....: ISO 14644-1: 2015
ISO 14644-3: 2019
ISO 16000-9: 2024

Test procedure.....: Type test

Non-standard test method.....: N/A

Test Report Form No.....: ISO 14644_1B

Test Report Form(s) Originator.....: STE

Master TRF.....: 2024-10

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Test item description.....: Office chair

Trade Mark.....: N/A

Model / Type reference.....: **IC007**, IC001, IC002, IC003, IC005, IC006, IC008, IC010, IC011, IC013, IC015, IC016, IC022, IC024, IC027, IC031, IC032, IC037, IC038, IC042, IC043, IC049, IC050, IC096, IC097, IC121, IC141, IC142, IC143, IC144, IC145, DC002

Ratings.....: --

Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were found to comply with the requirements of:

- ISO 14644-1: 2015
- ISO 14644-3: 2019
- ISO 16000-9: 2024

Testing location:

Shenzhen STE Testing Laboratory Co., Ltd.

3/F, Building 9, Hongde Factory, No. 63 Yuchang Road, Niuhe Community, Guanlan Street, Longhua District, Shenzhen, China

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.



Remarks:

1. Height of WEEE symbol is 7mm or more, height of letters and numerals is 2mm or more.

Possible test case verdicts:

- test case does not apply to the test object.....: N or N/A (Not Applicable)
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing.....:

Date of receipt of test item.....: August 19, 2025

Date (s) of performance of tests.....: August 19, 2025 to September 05, 2025

General remarks:

"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:

- ☐ Yes
☒ Not applicable

General product information

- 1, The laboratory ambient for testing: 23.0-25.0°C, 60%-73%R.H.
- 2, Frame: 304 Stainless Steel (surface finish Ra=0.6µm); and ABS plastic.
Seat/ Backrest: Medical-Grade PU (density 60kg/m³)
- 3, All models are same except the appearance.
- 4, The laboratory tests and evaluates the main model. Adding models based on the guarantee letter provided by the Applicant. STE takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the Applicant.

ISO 8 Classification Test report			
Clause	Requirement + Test	Result - Remark	Verdict
1	Sample Information		--
	Test item description :	Office chair	--
	Trade Mark..... :	N/A	--
	Model / Type reference..... :	IC007	--
	Manufacturer's name :	Hewei Technology Development Co., Ltd	--
	Address..... :	No. 200, Su'ao Village, Taoyuan Town, Heshan City, Jiangmen, Guangdong Province, China	--
	Sample Material	Frame: 304 Stainless Steel (surface finish Ra=0.6μm); and ABS plastic. Seat/Backrest: Medical-Grade PU (density 60kg/m³)	--
	Sample Pre-treatment	Surface wiped with 75% isopropyl alcohol per ISO 14644-3, followed by 24-hour standing before testing	P
	Test Requirement	Verify if the sample meets ISO Class 8 cleanliness requirements	P
	Test Results	This sample is suitable for use in ISO Class 8 cleanroom environments	P

ISO 8 Classification Test report			
Clause	Requirement + Test	Result - Remark	Verdict

2	Testing Standards and Environmental Conditions		--
2.1	Testing Standards		--
	ISO 14644-1: 2015 Cleanrooms and associated controlled environments — Part 1: Classification of air cleanliness		P
	ISO 14644-3: 2019 Cleanrooms and associated controlled environments — Part 3: Test methods		P
	ISO 16000-9: 2024 Indoor air - Part 9: Determination of the emission of volatile organic compounds from building products and furnishing - Emission test chamber method		P

2.2	Environmental Conditions for Testing		P
	Item	Parameter	--
	Testing Lab Class	ISO Class 7 (background cleanliness higher than Class 8 to ensure accuracy)	P
	Temperature	23±2°C	P
	Relative Humidity	45±5%	P
	Static Pressure Difference	15Pa (between lab and adjacent areas)	P
	Airflow Velocity	0.3±0.05m/s	P

ISO 8 Classification Test report			
Clause	Requirement + Test	Result - Remark	Verdict

3	Testing Equipment and Methods		--
Testing Item	Testing Equipment	Method Description	Verdict
Airborne Particle Concentration Test	Laser Particle Counter (Model: Lasair Pro, Calibration Valid Until 2026-01-08)	3 sampling points (0.5m, 1.0m, 1.5m above ground) within 1m of the sample; 10-minute sampling per point; recording concentrations of 0.5µm and 5.0µm particles	P
Surface Particle Contamination Test	Surface Particle Sampler + Microscope (Model: AO-HK830E, Calibration Valid Until 2026-01-08)	Wiping 3 sample surfaces (stainless steel frame, PU seat, joint) with sterile cleanroom wipe (10cm×10cm); counting ≥0.5µm particles under microscope	P
Material Exudate Test (VOC)	Small Emission Chamber + Gas Chromatograph (Model: Brevis GC-2050, Calibration Valid Until 2026-01-08)	Placing sample in 1m³ emission chamber for 24 hours at 23°C; collecting gas to test total VOC emission	P

ISO 8 Classification Test report			
Clause	Requirement + Test	Result - Remark	Verdict

4	Testing Results and Data				--
4.1	Airborne Particle Concentration Test Results (Core Indicator)				P
Sampling Point	Height Above Ground	0.5µm Particle Concentration (pcs/m³)	5.0µm Particle Concentration (pcs/m³)	ISO Class 8 Max Allowable Concentration (pcs/m³)	Verdict
1#	0.5m	1,250,000	18,600	3,520,000 / 29,300	P
2#	1.0m	1,180,000	17,200	3,520,000 / 29,300	P
3#	1.5m	1,320,000	19,100	3,520,000 / 29,300	P
Average	-	1,250,000	18,300	3,520,000 / 29,300	P
Note:					

4.2	Surface Particle Contamination Test Results				P
Testing Area		Testing Area (cm²)	≥0.5µm Particle Count (pcs)	Standard Requirement (≤pcs/cm²)	Verdict
Stainless Steel Frame		100	8	20	P
PU Seat		100	12	20	P
Stainless Steel-PU Joint		100	10	20	P
ABS frame		100	14	20	P
Note:					

4.3	Material Exudate Test Results (VOC)			P
Testing Item		Test Result (mg/m³)	Standard Requirement (≤mg/m³)	Verdict
Total VOC Emission		0.32	1.0	P
Formaldehyde Emission		Not Detected (<0.01)	0.1	
Note:				

ISO 8 Classification Test report			
Clause	Requirement + Test	Result - Remark	Verdict

5	Comprehensive Judgment and Conclusion		--
5.1	Comprehensive Judgment:		P
	The submitted Sample (Office Chair) has passed all testing items including airborne particle concentration, surface particle contamination, and material exudate (VOC), meeting the ISO Class 8 cleanliness requirements specified in ISO 14644-1:2015.		P

5.2	Test Conclusion		P
	This sample is suitable for use in ISO Class 8 cleanroom environments		P

6	Remarks and Declarations		--
	This report is only valid for the tested sample, and sample information is based on clause 1: Sample Information		P
	Test data only reflects the status of this test. If the sample material, production process, or surface treatment method is changed, retesting is required.		P
	This report shall not be partially reproduced or altered without the written approval of the testing institution.		P
	Any objection to the report must be submitted in writing within 15 working days upon receipt of the report.		P

Product Photos

Fig. 1



Fig. 2

Product Photos

Fig. 3

----- END OF REPORT -----