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The information is accurate as at 1 December 2023.

PRODUCT CERTIFICATION FOR Excel Hardware X Speco EcoSteel

This document has been prepared by Excel Hardware and Speco Singapore Pte Ltd to provide the intended recipient with information on our product certifications for the purpose of its export and local sales.

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Certificate of Analysis

Product: Excel Hardware x Speco EcoSteel

Lot No. #1001112023

Manufactured date: 1 December 2023

Property	Specification	Results
Appearance	Clear to Hazy White Liquid	Little Hazy Clear White Liquid
Water Solubility	Yes	Yes
Non-Volatile Content (%)	Above 3.0%	3.2

Authorized Signatory



Samuel Chiang
Head, Research & Development
Speco Singapore Pte Ltd
UEN: 201700949H
GST Registration: 201700949H

Product Efficacy Test conducted by AStar Laboratory

ASTAR LABORATORY PTE LTD
ENVIRONMENTAL CONSULTANTS & TESTING

27 Gul Avenue, Singapore 629667
Tel: 63396136 Fax: 62557608 Email: admin@astarlab.com.sg
Company Registration No. & GST: 201323826G

TEST REPORT NO: ASL-M080-19

Company Name : Spic & Span Pte Ltd
Address : 317 Outram Road #01-40, Concorde Shopping Centre, Singapore 169075
Date Received : 26 February 2019
Date Tested : 26 February – 03 March 2019
Date Reported : 04 March 2019
Sample Description : One (1) sample said to be Cleaning Agent

Sample was submitted by Spic & Span Pte Ltd. personnel on 26 February 2019 in a plastic container marked as:

Active Shield Antimicrobial

On analysis, the following results were obtained:

Test Microorganism	Initial Bacterial Load, cfu/mL	Log ₁₀
Escherichia coli ATCC 25922	3.9 x 10 ⁷	7.59
Salmonella Typhimurium ATCC 14028	8.3 x 10 ⁶	6.92
Staphylococcus aureus ATCC 25923	1.8 x 10 ⁷	7.25
Aspergillus brasiliensis ATCC 16404	2.0 x 10 ⁶	6.30

Contact Time: 5 minutes, no dilution

Test Microorganism	Count of Surviving Test Microorganism, CFU/ml	Log ₁₀	Percentage Kill of Test Microorganism, %
Escherichia coli ATCC 25922	<10	1	99.99
Salmonella Typhimurium ATCC 14028	<10	1	99.99
Staphylococcus aureus ATCC 25923	<10	1	99.99
Aspergillus brasiliensis ATCC 16404	8.8 x 10 ³	3.94	99.56

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Contact time: 60 minutes, no dilution

Test Microorganism	Count of Surviving Test Microorganism, CFU/ml	Log10	Percentage Kill of Test Microorganism, %
Escherichia coli ATCC 25922	<10	1	99.99
Salmonella Typhimurium ATCC 14028	<10	1	99.99
Staphylococcus aureus ATCC 25923	<10	1	99.99
Aspergillus brasiliensis ATCC 16404	6.8 x 10 ²	2.83	99.96

- Remarks:**
- 1) The above results were tested as per sample submitted.
 - 2) Test Method: In house method with reference to United States Pharmacopeia (USP) 41.


Roselle Monteloyola
Laboratory Manager