

TEST REPORT

Report No. : CH:TX:8420048467

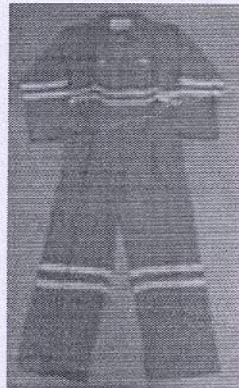
DATE : 13/09/2017



NAUTILUS INTERNATIONAL (CAYMAN) LTD
PO BOX 30739, CLASSIC COURT, CAMANA BAY, GRAND CAYMAN KY1-1203, GRAND CAYMAN ISLANDS,
BRITISH WEST INDIES
A/C BINAYKIA IMPEX PRIVATE LIMITED
CONTACT PERSON : Mr.MURTUZA KAPADIA

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

SAMPLE DESCRIPTION	PROTECTIVE CLOTH NAUTILUS BRAND CLASSIC FR COVERALL 260GSM
COLOUR	ORANGE
STYLE NO.	NAUTILUS BRAND CLASSIC FR COVERALL
ARTICLE NO.	FR TREATED
FIBRE CONTENT	100% COTTON
COUNTRY OF DESTINATION	UNITED ARAB EMIRATES
COUNTRY OF ORIGIN	INDIA
PHOTO APPENDIX.	



SAMPLE RECD ON 05/09/2017 **TESTING PERIOD :** 12/09/2017 - 13/09/2017

Summary of Test Results		
Test Method	Test Name	Status / Performance Level
BS EN ISO 11612: 2008	Protective clothing – Clothing to protect against heat and flame	
	Limited flame spread (Code letter A1)	Pass A1
ISO 105 C08 :2010 :2010	Colour fastness to washing	Refer results.
ISO 105X12:2016	Colour fastness to rubbing	Refer results.
ISO 5077:2007/ISO 6330:2012 -6N	Dimensional change after 3 rd washing	Refer results.

Per pro SGS India Private Ltd.

K. Pachaiyappan

K. PACHAIYAPPAN
ASST. MANAGER

Email your Test Report Related Enquiries at Feedback.SLT@sgs.com

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RESULTS

Pre-treatment:- All Tests were made after three wash/drain cycle in accordance with ISO 6330 at 60°C, Machine wash, Normal cycle, tumble dry low.

BS EN ISO 11612: 2015 Protective clothing – Clothing to protect against heat and flame

Clause & Test Name	Test Method	BS EN 11612: 2015 Requirements	Results Obtained	Level/ Status
6.3.2.2 Limited flame spread (Code letter A1)	ISO 15025 Procedure :A	<u>Flame Ignition time : 10 s</u> No flaming to the top or side edge. No hole formation. No flaming, melting or molten debris Mean after flame ≤ 2 s Mean afterglow ≤ 2 s	<u>As received and after pretreatment</u> Shell Fabric After Flame Time (s) No No After glow Time (s) No No Flame reaches vertical edge No No Hole formation No No Flaming debris No No	Pass A1
6.3.2.2 Limited flame spread (Code letter A1)	ISO 15025 Procedure :A	<u>Flame Ignition time : 10 s</u> The seams shall not separate except for leather	<u>After pretreatment</u> Seams After Flame Time (s) No After glow Time (s) No Flame reaches vertical edge No Seam separate No Flaming debris No	Pass A1
6.3.2.3 Limited flame spread (Code letter A1)	ISO 15025 Procedure :A	<u>Flame Ignition time : 10 s</u> No flaming to the top or side edge. No hole formation. No flaming, melting or molten debris Mean after flame ≤ 2 s Mean afterglow ≤ 2 s The Hardware shall be verified that the closure system can be opened at least once.	<u>After pretreatment</u> Closure Systems(Zipper) After Flame Time (s) No After glow Time (s) No Flame reaches vertical edge No Hole formation No Flaming debris No Observation : The closure system (Zipper) functioning properly after completion of test.	Pass A1
6.3.2.4 Limited flame spread (Code letter A1)	ISO 15025 Procedure :A	<u>Flame Ignition time : 10 s</u> No flaming to the top or side edge. No hole formation. No flaming, melting or molten debris Mean after flame ≤ 2 s Mean afterglow ≤ 2 s	<u>After pretreatment</u> Reflective tapes After Flame Time (s) No After glow Time (s) No Flame reaches vertical edge No Hole formation No Flaming debris No	Pass A1

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RESULTS

COLOUR FASTNESS TO WASHING

ISO 105 C08 :2010 :2010

(Temp.60°C,Liq.Fab- 20:1,Time:30min.,Steel Ball:25)

ECE Non Phosphate,Sodium perborate

Bleach activator:TAED

COLOUR CHANGE	Base,Trim: 4
STAINING ON ACETATE	4-5
STAINING ON COTTON	4-5
STAINING ON NYLON	4-5
STAINING ON POLYESTER	4-5
STAINING ON ACRYLIC	4-5
STAINING ON WOOL	4-5
SELF STAINING	4-5

COLOUR FASTNESS TO RUBBING

ISO 105X12:2016

DRY	Base,Trim: 4-5
WET	Base: 3-4 / Trim: 4-5

DIMENSIONAL CHANGE AFTER 3RD WASHING

ISO 5077:2007/ISO 6330:2012 -6N

(Machine Wash,60°C,Normal Cycle,Tumble Dry Low)

Detergent: 20g (ECE Non Phosphate, Sod.Perb,Taed=77:20:3)

	ORIGINAL (cm)	AFTER 3RD WASH (cm)	%AGE
Neck Collar Open	47.0	45.7	2.8%
Shoulder	52.5	51.5	1.9%
Arm	28.0	26.7	4.6%
Sleeve Length	61.0	58.0	4.9%
Chest	58.0	55.5	4.3%
Center Back Length	86.5	85.0	1.7%
Length From High Point Shoulder	158.0	151.5	4.1%
Leg Open	24.5	24.0	2.0%

***** End of Report*****