

Report of Analysis

Date of Sample(s) Received: 25.08.2020
Date of Job Started: 27.08.2020
Sample Number(s): 13299606

Report No: MUM/001602E/2020
Date of Job Completed: 03.09.2020
Report Date: 03.09.2020

M/s. Nichem Solutions
Plot No.A-408, Road No.28,
Wagle Estate, Thane (West) - 400604

For the Attention of : Mr. Rishikesh Choudhari

Sample(s) received from : Nichem Solutions

Sample(s) submitted as : Sample x 1

Description(s) on Label(s) : As Attached

Seals on Sample(s) : None

The above sample(s) was/were examined as detailed below and the following results obtained:

Please refer attached sheet for analytical results.

IPL/17025/QF/7.8/01	Issue No.: 01	Amend No.: 00
	Issue Date.: 16.12.2019	Amend Date.: 00.00.0000

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Date of Job Started: 25.08.2020
Sample Number(s): 13299606

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Sample Label: Micro Fight-006 (0.2% chips) (NS/240820-01) Qty 12 Nos. – **Laboratory ref. no. 13299606**

Base Polymer: LLDPE + Color + Anti-microbial additive MF 006

Antimicrobial Additive Supplier: NICHEM Solutions

Marketing Partner: PERFO CHEM INDIA PVT. LTD.

Manufactured By: Siloxane Aggrandize Innovative Industries, Valsad, Gujarat

Customer Name: ASHIRVAD PIPES PVT. LTD., Bangalore, Karnataka

Method: ASTM G21-2015

Sample Description: Micro Fight-006 (0.2% chips) (NS/240820-01)

Test specimen Size: 50 mms x 50 mms

Experimental Conditions:

Temperature: 28°C ± 1°C; **Humidity:** >85% Relative Humidity; **Duration of Exposure:** 28 Days

Test Organisms:

Mixed spore suspension of –

1. *Aspergillus niger* ATCC 9642
2. *Penicillium funiculosum* ATCC 11797
3. *Gliocladium virens* ATCC 9645
4. *Chaetobium globosum* ATCC 6205
5. *Aurobasidium pullulans* ATCC 15233

Procedure:

Specimen materials of 50 mms x 50 mms were placed on Nutrient salt agar. Composite spore suspension was sprayed on specimen. Observations were made on weekly basis for appearance for the density of fungal growth. Adequate positive and Negative controls were also included along with specimen.

Results:

Visual/ Microscopic Assessment Report

Sample Description	Rating in Terms of Growth
Micro Fight-006 (0.2% chips)	0
Control chips (NS/240820-03)	3
Untreated – Lab Control	4

Observation for Visible Effects:

Growth on specimen	Rating
None	0
Trace of Growth (< 10 %)	1
Light Growth (10 to 30 %)	2
Medium Growth (30 to 60 %)	3
Heavy Growth (60% to complete coverage)	4

Results: Sample labelled as Micro Fight-006 (0.2% chips) is resistant to fungal attack at the end of 28 days of incubation when tested as per ASTM G21-2015 test method.

Authorized Signatory


Dharmesh Bhalose
Asst. Manager – Business Development & Laboratory Caleb Brett

Note : The results reported relate to the sample tested only. The Test Certificate shall not be reproduced in full or part without the written permission of INTERTEK. The sample(s) has been not drawn/sampled by INTERTEK LAB. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and / or shipment and only relate to the sample(s) as received and tested. This report was prepared solely for the use of the client named in this report. Intertek disclaims any and all liability for damage or injury which results in the use of the information contained herein and accepts no responsibility for any loss, damage or liability suffered by a third party as a result of any reliance upon or use of this report. All jobs are performed as per Intertek terms & Conditions available at <http://www.intertek.com/terms/> or can be made available on request

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