SCHUTZENKILL-XCOV

Being a socially responsible organisation, SCHÜTZEN has launched SCHUTZENKILL-XCOV; a Virucidal, Microbicidal, Fungicidal & anti mite biocidal amine for textiles & face mask Finishing.

This worldwide pandemic of COVID-19 has highlighted the importance of products which are having antiviral, antifungal and antimicrobial properties.

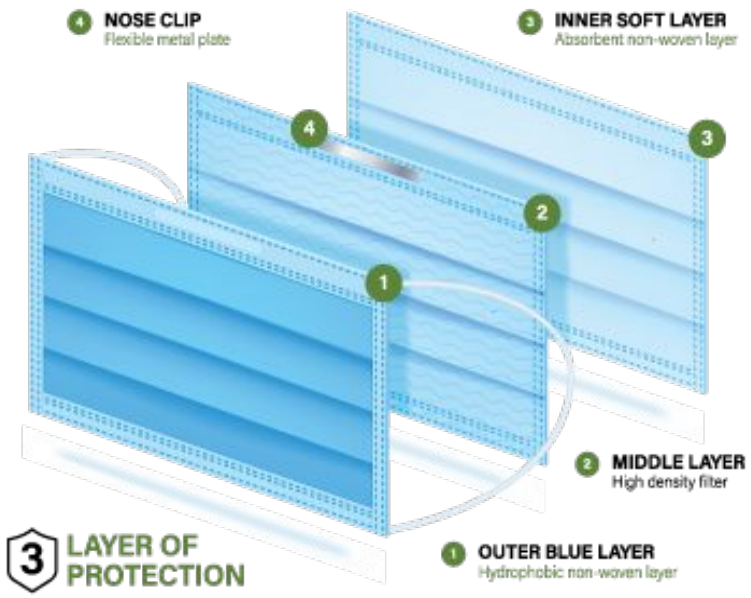
It is no secret that currently the world is witnessing a crisis like never before in the form of COVID-19 pandemic. It has already claimed thousands of lives and has infected millions of people.

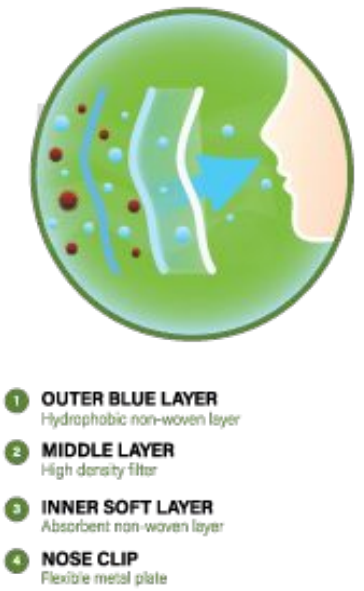
KEY FEATURES:

- The active ingredient in SCHUTZENKILL- XCOV is BPR compliant.
- It is highly effective against enveloped viruses such as Coronavirus, Herpesviruses, Orthomyxovirus, Paramyxovirus, Bunyavirus, Retrovirus.
- It is applicable on different forms of textiles such as yarn, open width fabric, garments & Non wovens.
- It can be applied using various techniques such as lick roll, spray , Exhaust & padding techniques.
- It is food and feed area safe.
- It is not carcinogenic.
- It is not Mutagenic nor Cytotoxic or Genotoxic.
- There is no Maximum Residual Limit (MRL).
- It is Aldehyde-free & Halogen-free.
- It is Quaternary Ammonium compound free.

HOW IS SCHUTZENKILL- XCOV APPLIED ON FACE MASKS?

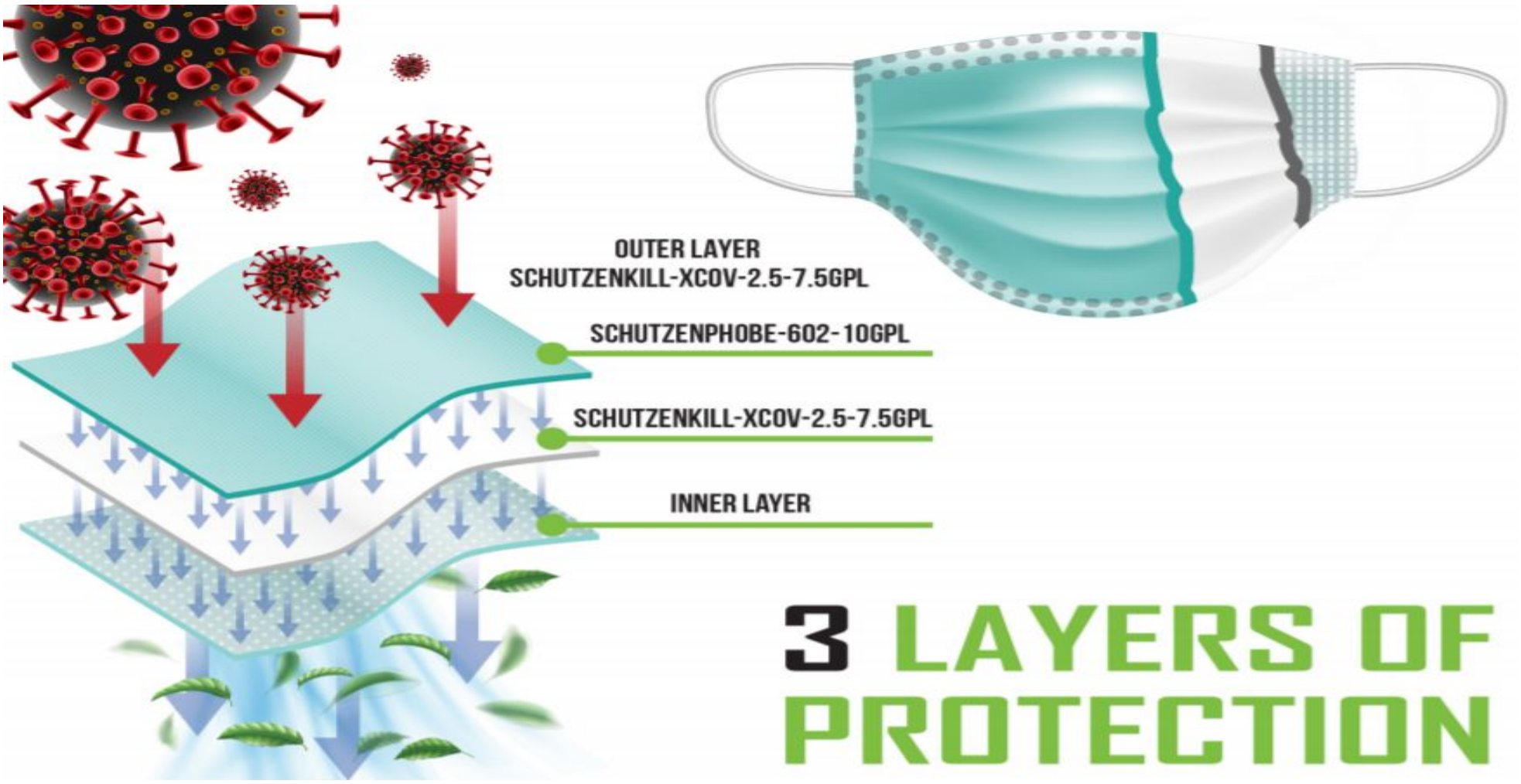
As depicted in the image below, generally, face mask constitutes 3 layers**, the Outside layer (Hydrophobic Nonwoven), Middle layer (High Density Fibre) and the Inner soft layer (Highly Absorptive Layer).**





SCHUTZENKILL- XCOV is recommended to be applied on the outer layer. Since hydrophobicity is absolutely essential for the outer layer, we recommend application of our water, oil & alcohol repellent SCHUTZENPHOBE-602 along with SCHUTZENKILL- XCOV. Additionally, it can be applied on the middle layer also. However, it is optional.

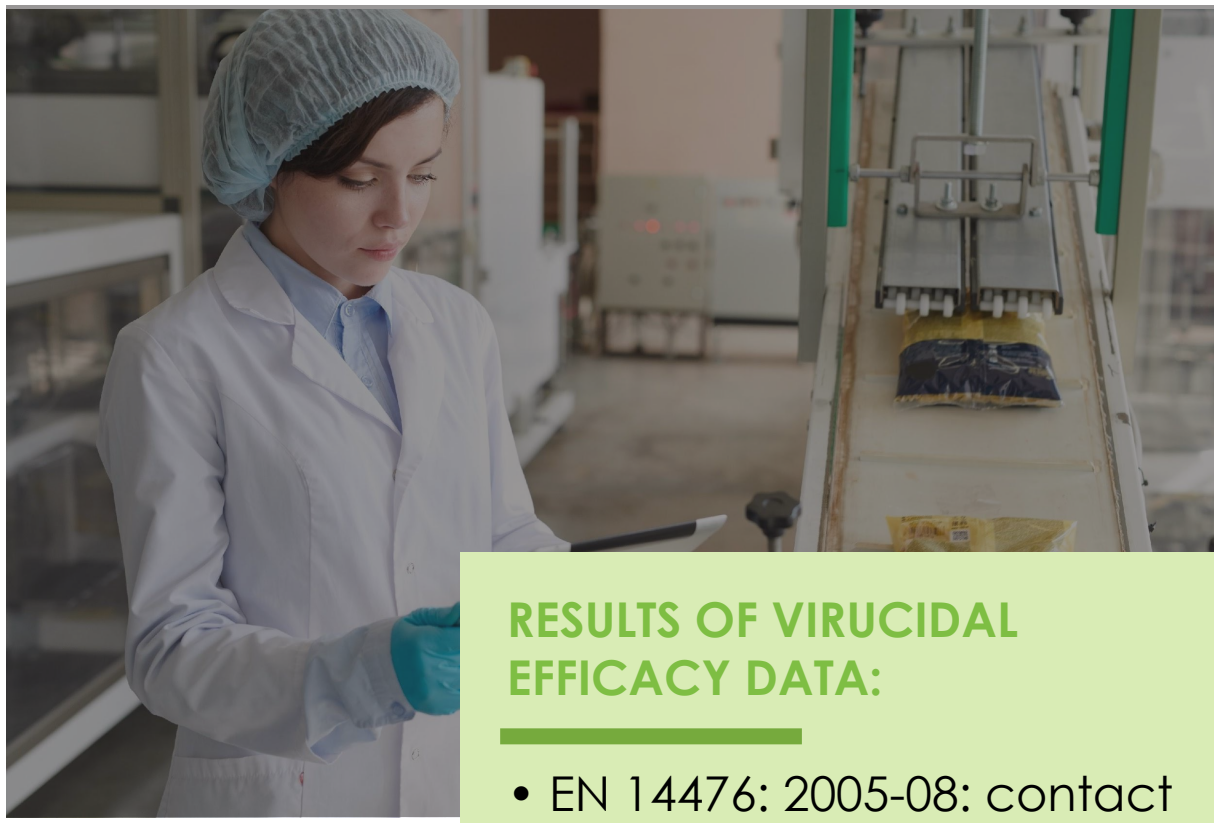
The application is depicted pictorially as below:



TEST REPORTS & COMPLIANCES

The Active ingredient in SCHUTZENKILL-XCOV is BPR Compliant and has been tested under the following conditions:

1. EN 14476: 2005-08: Against Enveloped viruses H1N1 Influenza Virus
2. EN 14476: 2013 :A2 2019 : Against Enveloped viruses modified vaccinia virus Ankara
3. EN 14476:A 2019:Against Enveloped virus Bovine coronavirus (Bcov) Surrogate of SARS-CoV-2
4. EN 14348: Mycobacterial efficacy
5. EN 1276: Bactericidal efficacy of antiseptics & disinfectants
6. EN 1650: Fungicidal suspension test
7. QB/T 24253-2009: Evaluation of anti-Mite activity on textile
8. QB/T 2738-2012: Antibacterial & bacteriostatic efficacy



RESULTS OF VIRUCIDAL EFFICACY DATA:

- EN 14476: 2005-08: contact time 10 minutes: Effective at concentration as advised
- EN 14476: 2013 :A2 2019: Effective at concentration as advised
- EN 14476:A 2019: Effective at concentration as advised

MICROBICIDAL EFFICACY DATA

Against mycobacteria
- EN 14348: Effective at concentration as advised

FUNGICIDAL EFFICACY DATA

- EN 1650: Effective at concentration as advised

BACTERICIDAL EFFICACY DATA

- EN 1276: Effective at concentration as advised

ANTI-MITE EFFICACY DATA

Against mycobacteria
- EN 14348: Effective at concentration as advised

ANTIBACTERIAL & BACTERIOSTATIC EFFICACY DATA

- QB/T 2738-2012: Effective at concentration as advised

HOW IS SCHUTZENKILL-XCOV SAFER THAN COMPETING CHEMISTRIES

Several competing chemistries are represented for the war against COVID-19, However, many of these chemistries pose a risk to humans and the environment.

SCHUTZENKILL-XCOV

No MRL's, Halogen free, Aldehyde Free, QAC Free.
Non-Genotoxic, Non-cytotoxic, Non-Carcinogenic. Food, feed contact area safe

NANO SILVER TECHNOLOGY

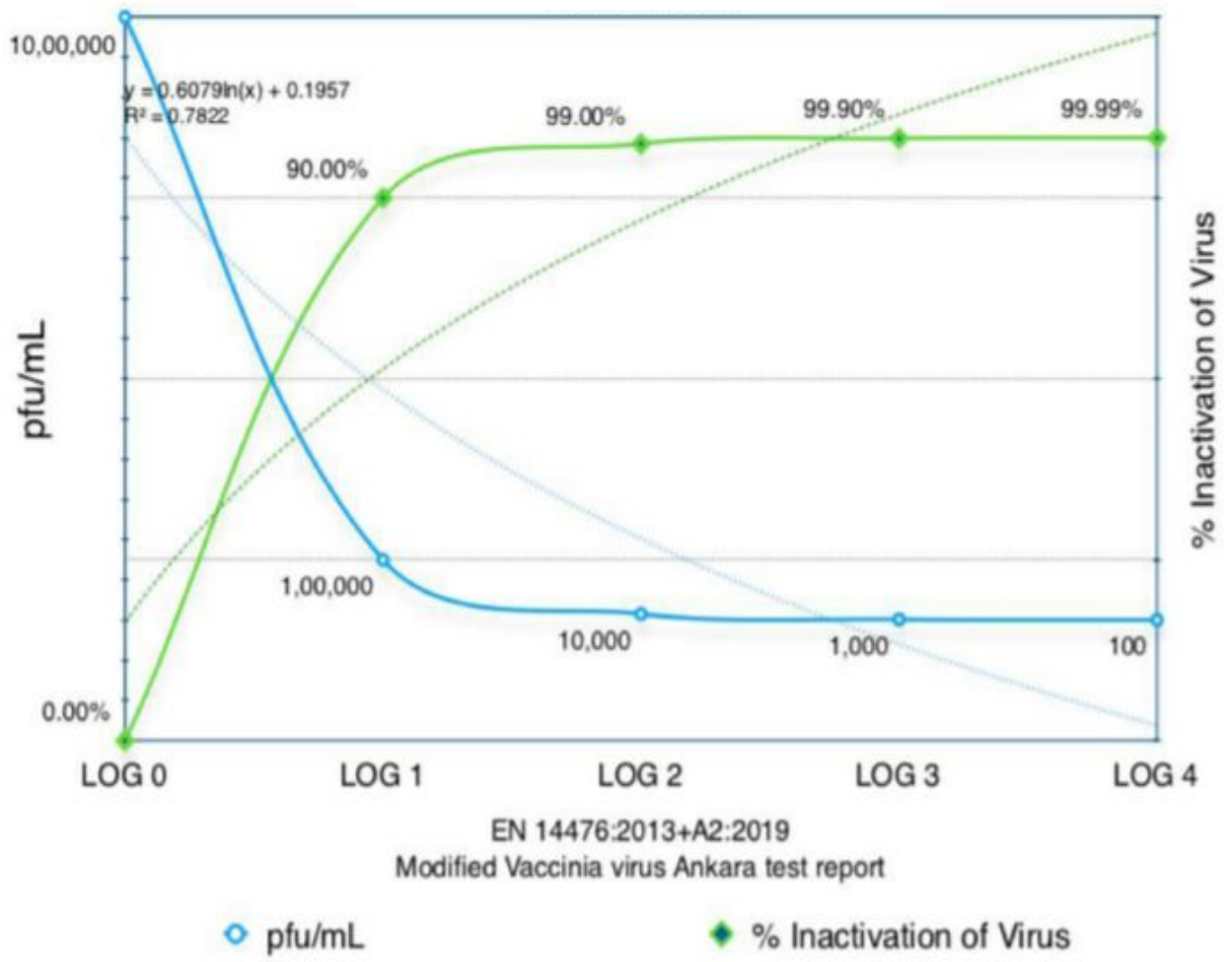
Genotoxic, Due to Nano Particle size, Enters the Skin cells, promotes DNA changes

QAC BASED CHEMISTRIES LIKE

Ubiquitous, Carcinogenic, Persistent

It is absolutely clear that SCHUTZENKILL- XCOV not only offers broad spectrum microbicidal and virucidal properties effectively, but also eliminates the hazards posed by the usage of other chemistries currently available in hygiene market.

SCHUTZENKILL-XCOV CONCENTRATION: 10 GPL PADDING TIME: 5 MINUTES



SCHUTZENKILL-XCOV can be declared as having "virucidal activity against all enveloped viruses" according to EN 14476:2013+A2:2019

The declaration "virucidal activity against all enveloped viruses" covers all enveloped viruses like HBV, HCV, HIV as well as members o other virus families such as orthomyxoviridae (incl. all human influenza viruses), coronaviridae (like MERS-CoV, SARS- CoV-1 and SARS-CoV-2) and filoviridae including Ebola virus. EN 14476:2013+A2:2019

LOG REDUCTION SHEET

KEY FEATURES:

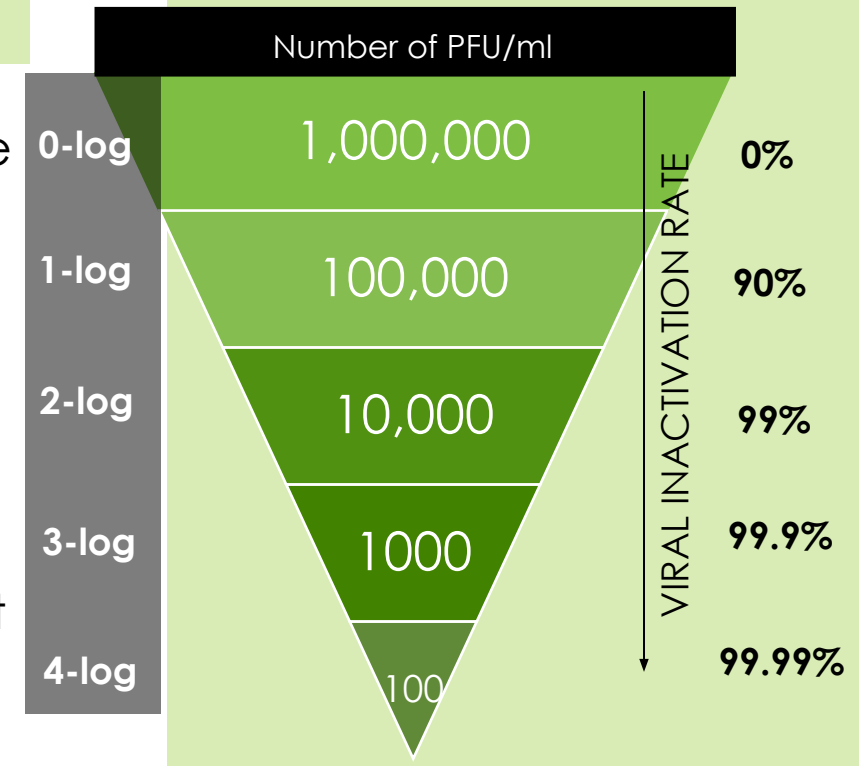
Log Reduction Curve is a method to study how effective the product is at inactivating viruses

APPLICATION IN MICROBIOLOGY

A log reduction takes the power in the opposite direction. For example, a log reduction of 1 is equivalent to a 10-fold reduction or, to put it another way, moving down one decimal place or a 90% reduction.

During product efficacy testing, the Virology laboratories count the number of plaque forming units (PFUs) of the given Virus present at the start of the test. The Active biocidal product being tested is applied, alongside a control sample, After the required test time the PFU's are recalculated.

The result of the difference between the control and the test product is then expressed as a Log reduction.



For example, if the number of PFUs in the control was found to be 1,000,000
and the end result using the product was only 100 that would be a Log 10 reduction of 4 or a reduction of 99.99%.

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