

CERTIFICATE OF ANALYSIS

These antibacterial tests were performed to demonstrate the effectiveness of the AEGIS Microbe Shield Technology against the specific Methicillin Resistant *Staphylococcus aureus* (**MRSA**) strain. Test Methods conform to **ASTM E2149-01** guidelines (Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions). Specific details of testing and materials is listed below the table.

These data indicate that the fabric tested, treated with the **AEGIS Microbe Shield Technology** (AEM5772/5), reduces the total population of MRSA bacteria >99.99 % after one hour simulated dynamic contact. Untreated fabric samples tested in parallel demonstrated no effectiveness at reducing the total MRSA population. These results indicate the antimicrobial effectiveness of the sample treated with the **AEGIS Microbe Shield Technology** against the resistant bacteria MRSA..

| | Microbiological Analysis | | |
|-------------------------|---------------------------|---|-------------------|
| | Initial concentration | Final concentration | Percent Reduction |
| Untreated Fabric Sample | 1.8 x 10 ⁵ /ml | 1.9 x 10 ⁵ /ml | 0 % |
| Treated Fabric Sample | 1.8 x 10 ⁵ /ml | $< 1.0 \text{ x } 10^{-1} / \text{ ml}$ | > 99.99 % |

ASTM E2149-01 Standard Test Method for Determining the Antimicrobial Activity of Immobilized Antimicrobial Agents Under Dynamic Contact Conditions.

Total contact time: 1 hour

Total Volume: 50 ml 0.3 mM KH₂PO₄ + 0.01% Q2-5211

Bacterial Strain: Clinical Isolate Methicillin Resistant Staphlyococcus aureus (MRSA)

Description of sample tested: 1g each fabric treated and untreated with AEM5772/5

Certified By:

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