



INNOVATIVE SOLUTIONS FOR CRITICAL ENVIRONMENTS

**Valutek, Inc**

220 South 9th St.

Phoenix, Arizona, 85034, United States

P +1 602.256.0540 | F +1 602.252.1972

[valutek.com](http://valutek.com) | [quality@valutek.com](mailto:quality@valutek.com)

## CERTIFICATE OF ANALYSIS

|                              |                                             |
|------------------------------|---------------------------------------------|
| <b>Product Category:</b>     | Gloves                                      |
| <b>Substrate Material:</b>   | Latex                                       |
| <b>Part Number:</b>          | VTGLPFB90-SM                                |
| <b>Lot Number:</b>           | 230701-T016                                 |
| <b>Sample Received Date:</b> | 07-05-2023                                  |
| <b>Manufacturing Date:</b>   | 07-01-2023                                  |
| <b>Test Date:</b>            | 07-10-2023                                  |
| <b>Expiry Date:</b>          | 07-01-2028 *Subject to storage and handling |

Page 1 of 2

\*Should not be exposed to direct sunlight, UV, light, high temperature, moisture and stored at well ventilated area.

### Physical Inspection

Test Method: ASTM D5151 & ASTM D6319

|                             |                 |            |               |
|-----------------------------|-----------------|------------|---------------|
| <b>1. Water Tight Test</b>  | <b>Sampling</b> | <b>AQL</b> | <b>Result</b> |
|                             | G1              | 1.5        | Pass          |
| <b>2. Visual Inspection</b> | <b>Sampling</b> | <b>AQL</b> | <b>Result</b> |
| Critical Defects            | G1              | 1.5        | Pass          |
| Major Defects               | G1              | 2.5        | Pass          |
| Minor Defects               | G1              | 4.0        | Pass          |
| <b>3. Dimension Test</b>    | <b>Sampling</b> | <b>AQL</b> | <b>Result</b> |
| Length                      | S2              | 4.0        | Pass          |
| Thickness                   | S2              | 4.0        | Pass          |

### Physical Properties

|                            |               |                 |               |               |
|----------------------------|---------------|-----------------|---------------|---------------|
| <b>Physical Test</b>       | <b>Method</b> | <b>Criteria</b> | <b>Actual</b> | <b>Result</b> |
| <b>4. Tensile Strength</b> | ASTM D412     | Min. 21 Mpa     | 23.65         | Pass          |
| <b>5. Elongation</b>       | ASTM D412     | min. 700%       | 757           | Pass          |

### Cleanliness

Liquid Particle Count Test

|                                            |                 |                      |               |               |
|--------------------------------------------|-----------------|----------------------|---------------|---------------|
| <b>LPC</b>                                 | <b>Method</b>   | <b>Specification</b> | <b>Actual</b> | <b>Result</b> |
| Counts / cm <sup>2</sup><br>(≥ 0.5 micron) | IEST-RP-CC005.4 | <2400                | 1586.40       | Pass          |

## Contamination Detection

### Fourier Transform Infra-Red Test

| FTIR                 | Method          | Specification | Actual | Result |
|----------------------|-----------------|---------------|--------|--------|
| Silicone, Amide, DOP | IEST-RP-CC005.4 | Absent        | Absent | Pass   |

### Total Non Volatile Residue Test

| TNVR                                      | Method          | Specification | Actual | Result |
|-------------------------------------------|-----------------|---------------|--------|--------|
| Isopropyl Alcohol (mg/cm <sup>2</sup> )   | IEST-RP-CC005.4 | < 5.0         | 3.30   | Pass   |
| DI H <sub>2</sub> O (mg/cm <sup>2</sup> ) | IEST-RP-CC005.4 | < 2.0         | 0.50   | Pass   |

## Protein Content

| Test                                  | Method     | Specification           | Actual | Result |
|---------------------------------------|------------|-------------------------|--------|--------|
| Protein Content (µg/dm <sup>2</sup> ) | ASTM D5712 | < 50 µg/dm <sup>2</sup> | 27.52  | Pass   |

### Notes:



Tested by:  
**Renugaa Krishnan**  
 Laboratory Coordinator



Approved by:  
**Vijendraan Venkitasalam**  
 Quality Manager