



KEMGROSSISTEN®

Engångsoverall Safeguard GP

| Summary | |
|-----------------------|--|
| Product | Safeguard GP |
| Description | SMS fabric for high air-permeability to make the most comfortable Type 5 & 6 option. With Lakelands' superior Super-B style pattern for an ergonomic, comfortable and durable fit. |
| Fabric & weight | SMS polypropylene. 50 gsm |
| Style *(see overleaf) | ESGP528 |
| Seam Type | Over locked |
| Colour | White, Blue, Red or Orange |



| CE Certification | | |
|------------------|--|--------------------------------|
| EN Standard* | Description | Result |
| EN 340: 2002 | Protective Clothing : general Requirements | Pass |
| EN 13034: 2005 | Type 6: Protection against light spray of liquids | Pass |
| EN 13982: 2004 | Type 5: protection against hazardous dry particles | Pass |
| EN 14605: 2004 | Type 3 & 4: Protection against splashes and sprays of liquid chemicals | NT |
| EN 1073: 2002 | Protection against dust particles that may be contaminated with radiation | Pass |
| EN14126: 2003 | Protection against infectious agents | NT |
| EN 1149-5: 2008 | Anti-static garment requirements: (ATEX regulations exclude certification for PPE: However, ATEX and BGR 132 / TBR52153 reference certification to EN 1149 as a suitable measure for protective clothing for explosive atmospheres.) | 4.83 x 10 ⁸ Pass |

* All Lakeland garments are certified to the latest versions of standards where possible

| Mechanical Properties | | | |
|-----------------------|------------------------|---------------|----------|
| EN Standard | Description | Result | EN Class |
| EN 13934 | Tensile Strength | 121.4/127.3 N | Class 3 |
| EN 530 | Abrasion Resistance | <500 Cycles | Class 2 |
| EN 863 | Puncture Resistance | 7.7 N | Class 1 |
| ISO 2960 | Burst Strength | 112 kPa | Class 2 |
| ISO 7854 | Flex Cracking | 100000 Cycles | Class 6 |
| ISO 9073 | Trapezoidal tear md/cd | 26.5/25 N | Class 2 |
| ISO 9073 | Trapezoidal tear-mean | 25.75 N | Class 2 |
| ISO 5082 | Seam Strength | 80.5 N | Class 3 |

| Chemical Repellency – EN 368 (for Type 6) | | |
|---|------------|-------------|
| Chemical | EN Class | |
| | Repellency | Penetration |
| Sulphuric Acid 30% | Class 3 | Class 3 |
| Sodium Hydroxide 10% | Class 3 | Class 3 |
| O-Xylene | - | - |
| Butan-1-ol | - | - |

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Chemical Permeation – EN 6529 – For Types 1 to 4

The chemical list below is from EN 6529 Annex A2 and is intended to provide a broad spectrum of chemical types if general chemical suit assessment

| Chemical | CAS No | Result / EN Class |
|----------------------|-----------|-------------------|
| Acetone | 67-64-1 | N/A |
| Acetonitrile | 75-05-8 | N/A |
| Carbon Disulphide | 75-15-8 | N/A |
| Dichloromethane | 75-09-2 | N/A |
| Diethylamine | 109-89-7 | N/A |
| Ethyl Acetate | 141-78-6 | N/A |
| n-Hexane | 110-54-3 | N/A |
| Methanol | 67-56-01 | N/A |
| Sodium Hydroxide | 1310-73-2 | N/A |
| Sulphuric Acid (96%) | 7664-93-9 | N/A |
| Tetrahydrofuran | 109-99-9 | N/A |
| Toluene | 108-88-3 | N/A |

Breakthrough times are a reflection controlled lab tests measuring "Normalised Breakthrough" as the time to reach a *permeation rate* of $1.0\mu\text{g}/\text{min}/\text{cm}^2$. This does not imply "no breakthrough" and is not intended to indicate any duration of "safe-use" in any specific application. It is always the users' final responsibility to ensure a garment is suitable for the application.

Key Features

- 3 layer SMS nonwoven polypropylene for high breathability and so excellent comfort
- Effective protection against hazardous dry particles and light liquid sprays
- Coverall with 3 piece hood, inset sleeves, 2 piece diamond crotch gusset, elasticated hood, waist, cuffs and ankles
- Lakeland "Super-B" style pattern ergonomically styled and sized for generous fit and superior freedom of movement

Suggested Applications

- "Dry" applications in GRP manufacture
- Boatbuilding
- Wind blade & similar manufacture
- Wood and plastic processing
- Insulation
- General manufacturing and maintenance
- Low level / low hazard sprays

Other Design Features

All Lakeland chemical suits (TomteX & ChemMAX) feature a front fastening consisting of a double zip with storm flaps. This ensures both full protection against sprays to the front of the garment and easy donning and doffing.

In addition ChemMAX garments (Except ChemMAX 4) feature wide double layer knee-pads to enhance comfort, durability and safety.



Sizing



| Size | Body Height | Chest |
|------|-------------|-----------|
| S | 164-170cm | 84-92cm |
| M | 170-176cm | 92-100cm |
| L | 176-182cm | 100-108cm |
| XL | 182-188cm | 108-116cm |
| XXL | 189-194cm | 116-124cm |
| XXXL | 194-200cm | 124-132cm |