

SIOEN



SIO-SAFE™ WASH & CARE INSTRUCTIONS

Washing recommendations

SIO-SAFE™

Suitable washing program

We recommend a laundry company with experience in PPE cleaning and a traceability system (functionalities to be discussed between the owner of the garments and the cleaning company). Before deciding on a suitable/optimal washing program for this garment, it is recommended that a test is carried out, so that the results can be evaluated. Use of a continuous batch washer (CBW) is not recommended and do never use a press. We strongly recommend that a washer extractor (WE) is used as best practice. Consider that the 4 factors of the Sinner circle (Temperature, Mechanical movement, Chemistry, Time) and water hardness may differ from one laundry to another, which may give different results.

Soiling and stain removal

Wash the clothing regularly to help prevent permanent stains. If a garment becomes excessively soiled the flame retardant properties can be negatively influenced.

Sorting

Sort the washing by type of fabric, colour (dark colours, light colours, hi-vis colours), degree and/or type of soiling. Extreme soiled garments should be treated separately. Close the zippers and touch closures before washing. Make sure that all pockets are empty. Turning the garments inside out during washing and drying means longer product life.



Loading capacity

Do not overload the washing machine: max 65-75%. This will give good cleaning results and will give the garment a longer life. Does your laundry company have machines with different load capacities to optimize the process?

Washing temperature

The washing temperature stated in the standard ISO 15797 program 8 is maximum 75°C. We recommend however to wash the garments at max. 60°C for longer product life and saving energy.

Detergent, chemicals and water

For colours, use a detergent without optical whiteners. The use of soaps (salts of fatty acids) is not recommended. Only use detergents with maximum 5% sodium perborate as this can alter the flame retardant properties. The pH value during washing cannot exceed the pH 9-11. Do not use chlorine bleach and hydrogen peroxide for the preservation of the colours. Do not use washing softeners or any stiffening as they can have a negative influence on the flame retardant properties of the garment. Use water of a good quality (low hardness) so that there is no lime scale on the laundry and the brightness of the colours are preserved.

Rinsing

Make sure that the rinsing is performed with soft water so that all detergent residues are removed. There must be sufficient acidification during rinsing to retain the brightness of the colours.

Water repellent finish

In the case of a product which provides protection against chemical risk EN 13034 (type 6), the fabric is treated with a repellent finish (fluor carbon). The finish is however semi-permanent and will decrease during use and washing. It is therefore recommended that after each washing cycle the repellent treatment is added. The fluor carbon

finish is added in the last rinsing process, after all detergent residues are removed. The pH value of the bath must be 4 to 5 to get a good bond between the fabric and the fluor carbon product. During drying the product will be activated from 60-80°C on (specification to be found on the technical data sheet of the supplier). The final pH on the garment must be between 6 and 6,5 to prevent dermatological reactions and yellowing of the fabric.

Drying

Drying in a finisher/tunnel gives a better appearance and less shrinkage than drying in a tumbler. Avoid excessive drying as this will accelerate the effect of high shrinkage of the garment and damages to the retro-reflective material.

In the event of use of a tumble dryer, residual moisture measurement will avoid excessive drying and reduce the energy consumption.

Ironing

Ironing has a positive influence on the activation of the fluor carbon treatment.

Quality control and repair

Garments must be inspected after cleaning. In the event of damage, repairs can only be carried out by an expert, with original materials. Additional advice can be provided by the garment manufacturer.



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