**SC JOHNSON PROFESSIONAL’S PATENTED FOAM TECHNOLOGY: ADVANCING HAND HYGIENE BY USING LESS**

We are the world leader in foam technology for hand hygiene products. For nearly 25 years, we have invented numerous foam innovations that enable end users to use less product compared to traditional lotion soaps, achieving great results. From washroom soaps and industrial hand cleaners to high efficacy hand sanitisers and antimicrobial hand wash, our numerous patents mean we now have the world’s widest range of hand hygiene products using foam technology.

We started by inventing and launching the world’s first wall-mounted non-aerosol foam soap dispensing system in 1998. This introduced a solution that enabled people to use less product, less water, less energy and less packaging waste than traditional lotion soaps in a product format that delivers more hand washes per cartridge, helping make the washroom more efficient.

By combining chemistry and engineering, we created our RefreshTM hand soap product range, which allows users to achieve an effective hand wash with significant savings when compared to washing with traditional lotion soaps. Our RefreshTM hand soap range provides 30% more hand washes per litre, reduces packaging waste by 26% and reduces water use by 45% thus also reducing energy usage via hot water.

Developing on the foam soap format, we invented OxyBAC®, an antimicrobial rich-cream foam hand wash with a patented biocidal technology specifically for use in food manufacturing, catering and healthcare environments where a high level of hand hygiene is needed.

One of our most demanding foam inventions was InstantFOAM™ hand sanitiser, which contains 80% alcohol. Using our deep understanding of the science of foam, we were able to develop a high alcohol-based formula that could dispense as foam and is preferred to traditional gel formats. Designed for use in demanding hygiene environments, such as hospitals and the food industry, InstantFOAM™ was the world’s first non-aerosol foaming alcohol hand sanitiser and solved issues such as stickiness and poor handleability experienced with gel and liquid sanitisers[[1]](#footnote-1). We conducted a hospital study and, when comparing InstantFOAM™ with an alcohol gel hand sanitiser, we found that 81% of users preferred InstantFOAM™ for skin integrity and 88% preferred its feel[[2]](#footnote-2).

Using our experience of foam technology to deliver better efficiency and less waste, with products people like to use, we have invented our PowerFOAM™ industrial hand cleaners. Throughout industry, hand cleaners are used frequently every day by workers to get their hands clean and help keep them in good condition.

Our patented Solopol® GFX™ is the world’s only heavy-duty foam hand cleaner containing scrubbing agents suspended in the foam, to give a deep-down clean for heavily soiled hands[[3]](#footnote-3). This invention involved creating a completely unique foam pump to inject air into a delicately balanced formulation of heavy-duty cleaning ingredients and natural scrubbing agents. Compared with a leading traditional hand cleaner, Solopol® GFX™ hand cleaner uses 50% less product for an effective hand wash and in end user testing, 87% of workers preferred it over their existing lotion hand cleansers[[4]](#footnote-4).

For lighter, general industrial hand cleaning we have invented Estesol® FX™ foam hand cleaner. Estesol® FX™ is twice as effective as the leading standard washroom soaps and provides up to two times more hand washes compared to the same volume of traditional lotion soap hand cleaner[[5]](#footnote-5). In end user testing, Estesol® FX™ hand cleaner was preferred by 77% of workers over their existing traditional lotion hand cleaners[[6]](#footnote-6).

Bringing foam technology innovations to soaps, sanitisers and hand cleaners, we have advanced hand hygiene by allowing users around the world from a wide range of industries to use less and get great results – supporting skin health and hygiene, whilst also helping to create a more efficient hand hygiene solution.

**To find out more about SC Johnson Professional’s foam soaps, sanitisers and hand cleaners, head to** [**https://www.scjp.com/en-gb**](https://www.scjp.com/en-gb)**.**

1. Impact of hand sanitizer format (gel/foam/liquid) and dose amount on its sensory properties and acceptability for improving hand hygiene compliance. R.E. Greenaway a, \*, K. Ormandy b, C. Fellows b, T. Hollowood. Sensory Dimensions Ltd, Cowlairs, Nottingham, UK. Funded by Deb Group Ltd, Denby, UK. [↑](#footnote-ref-1)
2. Mount Sinai Hospital. Optidose Survey, 2012 [↑](#footnote-ref-2)
3. <https://www.scjp.com/en-gb/solopol-gfx-gritty-power-foam> [↑](#footnote-ref-3)
4. <https://pi.scjp.com/uk/solopol-gfx-uk.pdf> [↑](#footnote-ref-4)
5. <https://pi.scjp.com/uk/estesol-fx-uk.pdf> [↑](#footnote-ref-5)
6. <https://pi.scjp.com/uk/estesol-fx-uk.pdf> [↑](#footnote-ref-6)