



SOLVAY

PROGRESS BEYOND

INTEROX[®] SG

Safe and efficient decontamination
for pharmaceuticals

**SOLVAY
PEROXIDES**



Solvay's INTEROX® SG (Sterile Grade)

is the safest and most efficient way to decontaminate pharmaceutical production lines. Our versatile solution can be used in vaporized hydrogen peroxide sterilization (VHP) systems that are integrated or non-integrated into isolators and barrier systems used for aseptic filling lines at pharmaceutical companies and laboratories.



Undisputed quality

INTEROX® SG grades offer the highest possible quality on the market with a residual value after evaporation below 2ppm - well below the residual value recommended by major isolator producers (10ppm) - preventing residue build-up in pipes that can cause machine clog or malfunction.



Safety you can trust

Solvay's hydrogen peroxide is also one of the safest and most efficient disinfectants and bio-decontaminants used in the healthcare industry.

Hydrogen peroxide alternatives such as formaldehyde, chlorine dioxide or ethylene oxide can leave behind toxic residue and are much less compatible with a wide variety of materials.

In the pharma industry - where humans and animals are the end users - product quality must be impeccable. Given these stakes, we recognize the importance of complying with Good Manufacturing Practices (GMP) throughout our entire supply chain.



A trusted global presence

Our expansive global footprint - with manufacturing facilities in the Netherlands, the United States and Thailand - guarantees the delivery and security of supply of INTEROX® SG grades all over the globe. Furthermore, our quality management system meets proper regulation requirements, minimizes risk, enhances safety and prioritizes the need for traceability.

Solvay has applied for a Union Authorization under the EU BPR (Biocidal Product Regulation) for the use of INTEROX® SG in product-type 2. INTEROX® SG has national approvals for several European countries*.

* Please contact your local Solvay representative for details

Case Study:

How Solvay INTEROX® Sterile Grade helped reduce maintenance and speed up production at a major German oncology company

CUSTOMER CHALLENGE:

A major oncology company, based in Germany experienced issues with one of their flexible multi-product isolator line. The line is composed of five independent isolator segments with an independent air handling unit and independent H2O2 evaporation units.

The hydrogen peroxide used by the pharmaceutical company in their first trials was leaving sticky residues on the pipes due to the high amount of stabilizers in the hydrogen peroxide. The isolators were therefore hard to clean, and the overall piping was becoming more difficult to re-assemble.

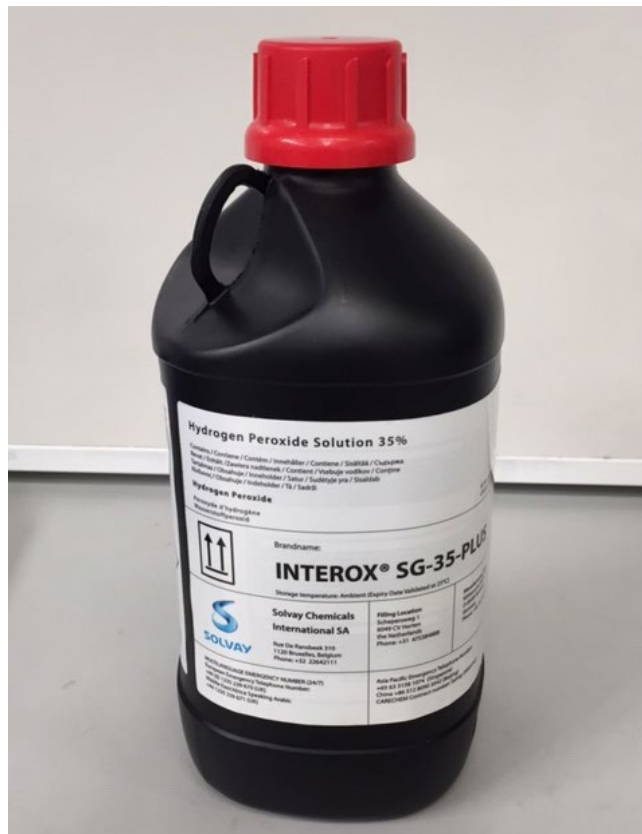
The company had to perform regular and deep manual cleaning of the evaporation units and of the piping to keep the production running smoothly.

SOLVAY'S SOLUTION AND APPROACH:

- Working in close collaboration with the isolator OEM, Solvay proposed Interlox® SG 35 PLUS, having the lowest amount of stabilizers and non volatile matter on the market. Solvay engaged in extensive development activities and field trials to demonstrate the efficiency of use of Solvay hydrogen peroxide in the decontamination process without residue issues.
- With Solvay hydrogen peroxide, the aeration time to meet the concentration of <0.5ppm was reduced by 50 min and the residues left on the pipes were reduced down to acceptable levels, easy to clean afterwards.

TECHNICAL SPECIFITIES:

	Solvay Interlox SG35 PLUS	Previous supplier
Concentration	35% H2O2	35% H2O2
Stabilizers	≤ 1 mg/kg	250 mg/kg
Non volatile matter/ash content	≤ 2 mg/kg	500 mg/kg
Aeration time to < 0.5ppm H2O2 concentration	50 min reduction with Solvay Interlox SG35 PLUS	



Customer value after changing to Solvay INTEROX:

- Reduced aeration time minimizing downtime
- Substantial reduction in stabilizer residue and improved ease of cleaning
- Stabilizer residues not impacting the process due to a constant H2O2 curve
- Improved peroxide performance resulting in less maintenance and faster production

SOLVAY'S GLOBAL PRODUCT OFFERING



North America

Peroxides Healthcare Solutions (<https://www.solvay.com/en/chemical-categories/peroxygens/peroxides-healthcare-solutions>)

Specifications	Pack size (L)	Shelf Life (Months)	Registration
SG 35	1 - 2.5 - 3.78	12	Applying for EPA Registration
SG 50	2.5	12	

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Europe - Middle East - Africa

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Specifications	Pack size (L)	Shelf Life (Months)	Registration
SG 35	2.5 - 5 - 22	12	BPR* Union authorization
SG 50	2.5 - 5 - 22	12	
SG 35+	1 - 2.5 - 5 - 22	12	
SG 50+	1 - 2.5 - 5 - 22	12	

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Asia Pacific

apac.sterilegrade@solvay.com

Specifications	Pack size (L)	Shelf Life (Months)	Registration
SG 35	Not Available		Not available
SG 50	2.5	12	
SG 35+	1 - 2.5	12	

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Solvay Peroxides

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PEROXIDES HEALTHCARE SOLUTIONS

(<https://www.solvay.com/en/chemical-categories/peroxygens/peroxides-healthcare-solutions>)

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