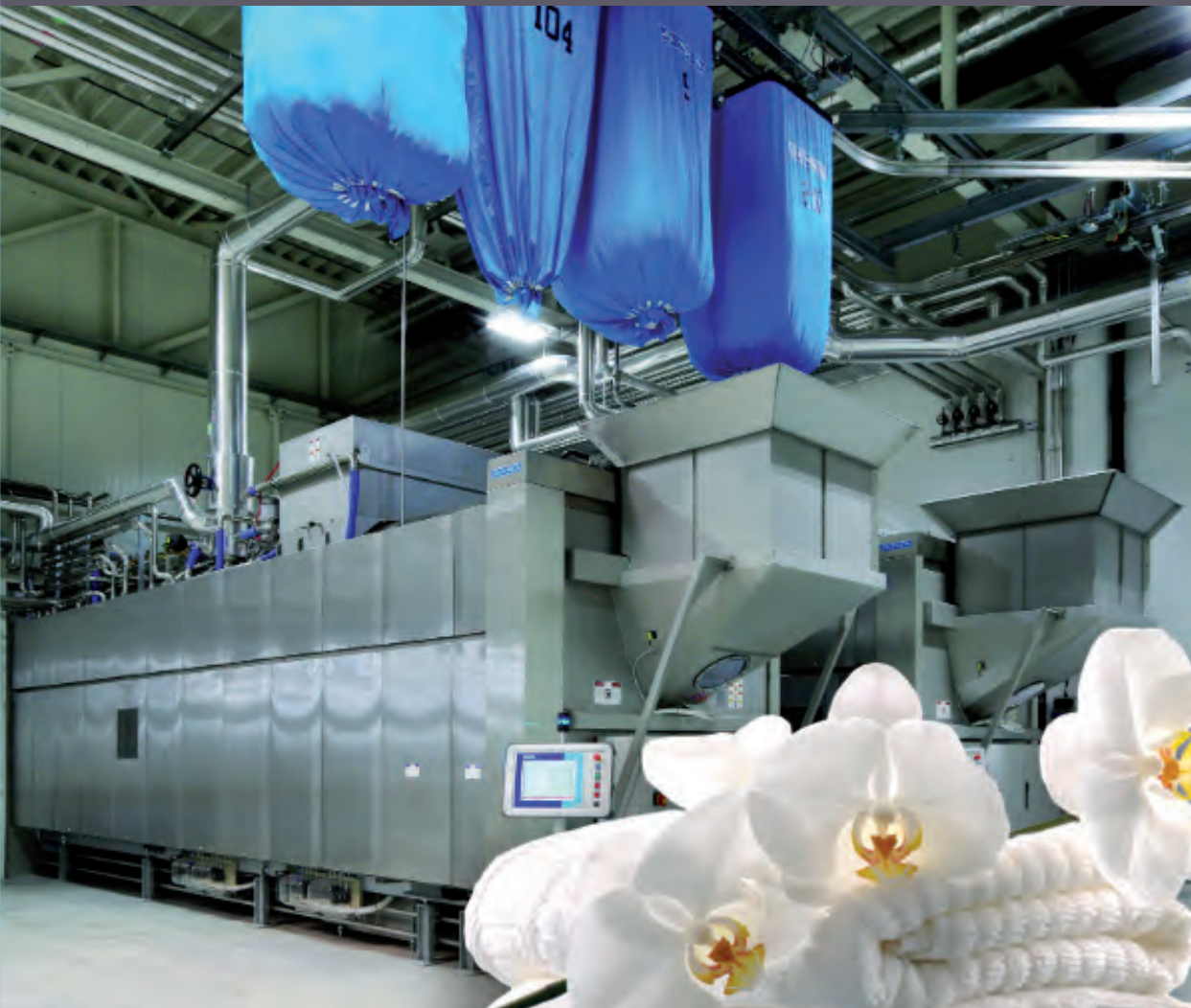




LINEN CARE ESSENTIALS

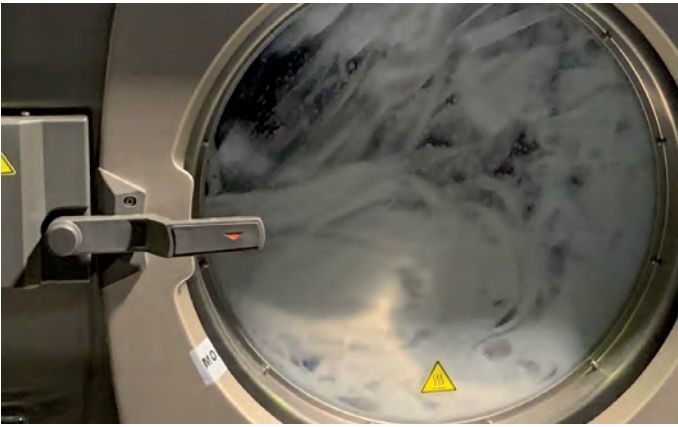


The Right Product at the right place

Innovative Cleaning Solutions for the Textile Care Industry

ORAPI
HYGIENE SOLUTIONS WORLDWIDE

DETERGENTS



4610 VIPER PLUS Heavy Duty Detergent

Liquid detergent recommended for washer extractors and tunnels washers in commercial or on premise laundries. Formulated with sophisticated surfactants, and optical brighteners to provide effective penetration and emulsification of soils from natural and synthetic fabrics, while maintaining maximum whiteness.

Particularly effective on heavier classifications when used in combination with MAGNUM (5328). May be used as a pre-wash spray on coloured cotton fabrics for difficult stains.

Colour: Blue
Dilution: 2-10ml / Kg of dry linen
pH (1%): 10.4 ± 0.4

OH 4610 O2

25L

OH 4610 U2

205L

4900 EVALUATE One-Shot Powdered Detergent

Heavy-duty alkaline break wash detergent developed for manual and automatic wash operations in industrial laundry. Formulated with blend of alkaline salts and wetting agents for effective removal of blood, fats and oils

from heavily soiled linen. Contains optical brightener to maintain maximum whiteness of the linen.

Colour: White
Dilution: 5-6 gm / Kg of dry linen

OH 4900 O4

50Kg

Injection Dosing Equipment

- Personalised system adapted to the laundry requirement
- Single or modular pump systems for decentralised washer-extractors
- Centralised multi-pump systems with integrated Management Information System for tunnels and washer-extractors
- Volumetric dosing
- Remote control
- Auto calibration
- Reliable dosing installations for minimum maintenance and long lifecycle
- Commissioned by a team of experience Technical Engineers
- Regular maintenance servicing
- 24 hours support



WASHING ADDITIVES



3900 ENTERPRISE Concentrated Emulsifier

Phosphate free emulsifying additive formulated for pre-soaking and pre-washing operations in commercial or on premise laundries. Reinforces the detergent activity providing exceptional penetration and emulsification of fats, oils and greases spots on heavily soiled linens. Recommended for table cloths, dust coats, mechanics apparel etc.

Suitable for Washer Extractors, Tunnel Washers and single dose point washing machines.

Non-foaming properties. **Economical for use with minimized environmental impact.**

Colour: Blue
Dilution: 2-12ml / Kg of dry linen
pH: 6.5 ± 0.5

OH 3900 O2

25L

OH 3900 U2

205L

3214 ENZY-SOLV Enzyme Emulsifier

Phosphate free emulsifying additive developed for pre-soaking and pre-washing operations in industrial laundries. Formulated with enzymes and emulsifier to reinforce the detergent activity, dispersing fats, oils, greases, blood, food and starchy residues on heavily soiled linens.

Works effectively at low temperatures from 40°C to 50°C.

Suitable for Washer Extractors, Tunnel Washers and single dose point washing machines. Non-foaming properties. **Economical for use with minimized environmental impact.**

Colour: Clear Yellow
Dilution: 2-5ml / Kg of dry linen
pH: 8.0 ± 1.0

OH 3214 O2

25L



WASHING TREATMENT



5328 MAGNUM Heavy Duty Alkaline Builder

Concentrated alkali builder designed for hard water regions. Recommended for using in conjunction with a main detergent VIPER PLUS (4610) in commercial or on premise laundries. Breaks up and loosens light and heavy soil, fats, oils, grease, protein, blood and faeces. Saponifies oily soils to become water dispersible. Contains special sequestering agents to inhibit against

high iron and scale formation. Suitable for Washer Extractors, Tunnel Washers and single dose point machines operating under a broad range of temperatures.

Colour: Clear
Dilution: 4-8ml / Kg of dry linen
pH (1%): 13 ± 0.5

OH 5328 O2	25L
OH 5328 U2	205L

2520 RENEW Liquid Rewash Destainer

Highly concentrated liquid, blend of oxalic acid, wetting agents and sequestrants. Designed for the rewash process to remove tenacious stains from fabrics (blood, iron/metal, alkalis and detergents residues). May be used as a pre-wash or re-wash spray for blood and metal soils.

Good soil penetration. Can be automatically dispensed. Optimum performance and economical for use.

Colour: Pale Straw
Dilution: 10-15ml / Kg of dry linen
pH (1%): 2.5

OH 2520 O2	25L
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2445 REFLEX Powder Rewash Destainer

Acidic salt, formulated for the removal of metallic stains (iron and copper) deposited from contaminated water supplies over frequent washes. Effective to remove blood residues

and medical soils from linens. May be used as a pre-wash to remove blood soils.

Colour: White
Dilution: 5-10g / Kg of dry linen
pH (1%): 1.3 ± 0.5

OH 2445 S5	20Kg
OH 2445 O4	50Kg

3523 LIQUID CHLOREXIT Chlorine Neutraliser

Liquid neutralising agent developed to remove and inactivate all traces of chlorine from fabric after bleaching process. Recommended to be dosed during rinse operation where chlorine retention (damaging or yellowing) becomes a challenge.

Colour: Colourless
Dilution: 1 to 3ml / Kg of dry linen
pH (1%): 1.3 ± 0.3

OH 3523 U2	205L
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BLEACHING/DISINFECTING AGENTS



4971 OPINION Liquid Bleach

Liquid chlorine agent used to decolorise stains on white linens in laundry processing operations with liquid injection system. Exhibits rapid bleaching action to minimize time and maximize stain removal. Removes any oxidizable soil for whiter, brighter results. Excellent sanitiser to reduce

infectious bacteria and ensure maximum hygienic standards. Care should be taken on chlorine sensitive fabrics. Extremely cost effective.

Colour: Clear Yellow
Dilution: 1-3ml / Kg of dry linen
pH: >12

OH 4971 O2	25L
OH 4971 U2	205L

4005 PINTO L Powder Bleach

Free flowing chlorine powder, formulated for speedy and thorough removal of stains from whites, colour-fast cottons and polyester / cotton blends. Designed with a balance pH to ensure maximum bleaching efficiency.

Particularly suitable for use in hard water. Care should be taken on chlorine sensitive fabrics.

Colour: White
Dilution: 1-2g / Kg of dry linen
pH (1%): 9.5 -10.5

OH 4005 O4	50Kg
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3860 GAMMA Liquid Oxygen Bleach

Concentrated peroxide based bleach, formulated for washer extractors and tunnels washers in all industrial laundry. Designed for safe bleaching on cotton-polyester blends, as well as most coloured articles and fabrics. Provides a high and

extremely stable level of whiteness. Reduces process time and fabric degradation.

Colour: Colourless
Dilution: 1-5 ml / Kg of dry linen
pH: < 3.5

OH 3860 O2	25L
OH 3860 U2	240Kg

4395 UNIVERSE Powder Oxygen Bleach

Perborate-based bleach specifically formulated with mild oxidising agent, for mild, safe bleaching on a wide range of laundry fabrics, such as cottons, polyester blends, coloured and delicate fabrics. Provides a high and extremely stable level

of whiteness. Reduces process time and fabric degradation.

Colour: White
Dilution: 2-5gm / Kg of dry linen
pH (1%): 11.4 ± 0.1

OH 4395 O4	50Kg
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FINISHING ADDITIVES



3303 IMPORT Fabric Conditioner

Highly concentrated liquid fabric softener and conditioner designed for hospitals, nursing homes, commercial or industrial laundry processes. Formulated with quaternary ammonium compounds to reduce the proliferation of bacterial growth in moist soiled linen awaiting processing. Reduces wrinkling and static cling to make ironing and folding easier and faster.

Imparts luxurious fluffiness, smoothness and softness to cotton and cotton poly fabric blends leaving a fresh and clean scent. **Phosphate free for minimal environmental impact.**
Colour: White Opaque
Dilution: 1-6 ml / Kg of dry linen
pH (1%): 4.5 ± 0.5

OH 3303 O2	25L
OH 3303 U2	205L

3374 DESILINE AF Laundry Sanitizing Agent

Powerful wide spectrum sanitiser formulated to disinfect linens during the laundering process in hospitals, nursing homes or industrial laundry processes. **Effective against broad spectrum of bacteria and organisms killing 99.99% of common pathogens** i.e.: gram + and - negative: moulds,

fungi, algae, etc. Reduces the critical risks of contamination. Does not require rinsing after application. **Leaves a fresh pleasant scent.**
Colour: Light Amber
Dilution: up to 1 ml / Kg of dry linen
pH (1%): 6.3 ± 0.5

OH 3374 O2	25L
OH 3374 U2	205L

3456 MONOGRAM Powder Starch

Laundry starch powder designed to provide a combination of tailorable stiffness and soft comfort for a variety of linens and garments. **Formulated to disperse easily and quickly in cold water.** May be used as either cooked or uncooked.

Improves fabric feel and finish. Will not build up on equipment when used at the recommended dilution.
Colour: White
Dilution: 10 -20 gm / Kg of dry linen

OH 3456 S5	20Kg
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2620 NEUTREX Liquid Neutraliser

High neutralising capacity sour developed for the most economical use in all industrial and commercial laundries. **Treats fabrics gently and adjusts pH of garments to minimize potential skin irritation and fabrics browning.** Increase the productivity of the finishing process, reducing

the need for special fabric treatments. May be used for all classifications of coloured and white linens. **Phosphate-free.**
Colour: Green
Dilution: 1-3 ml / Kg of dry linen
pH (1%): 2.20 ± 0.20

OH 2620 O2	25L
OH 2620 U2	205L

AUXILIARY'S PRODUCTS



9141 SUP'STAIN OXY Colour Spotting Agent

Ready to use pre-spotting agent formulated for the removal of coloured stains. **Effective on blood, red fruit, wine, grass or urine stains, etc.** Gentle formula based on enzymes respecting the linens

fibres. Preliminary testing may be required on the seam before spotting.
pH (1%): 8.6 ± 0.5

OH 9141 F6	500ml x 4
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9142 SUP'STAIN INK Ink Spotting Agent

Ready to use pre-spotting agent formulated for the removal of ink and paint stains. Ultra-performant formula effective from very low temperatures.

Preliminary testing may be required on the seam before spotting.
pH (1%): 6.0 ± 0.1

OH 9142 F6	500ml x 4
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9143 SUP'STAIN OIL Oil Spotting Agent

Ready to use pre-spotting agent developed for the removal of stubborn oil stains. Effectively remove butter, oil, chocolate, makeup, etc. Preliminary

testing may be required on the seam before spotting.
pH (1%): 8.0 ± 1.0

OH 9143 F6	500ml x 4
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9144 SUP'STAIN RUST Rust Spotting Agent

Ready to use pre-spotting agent developed for the removal of rust stains. Effectively remove all stains from metallic origin. Preliminary testing

may be required on the seam before spotting.
pH (1%): 1.0 ± 0.1

OH 9144 F6	500ml x 4
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BOILER CARE



4059 AQUATEC SP-059 Scale Preventive Agent

Natural base anhydrous powder formulated for internal water treatment of large high & low pressure boilers. Designed to **control hardness and alkalinity. Will prevent foam carryover.** Contains **no carbon dioxide** foaming compound. Water soluble, non-flammable.

Extremely Economical.
Colour: Grey
Dilution: 10% with cold water (1kg for 400 000L water containing 1ppm of Calcium hardness as Ca)
pH (1%): 9.3 ± 0.5

A 4059 S5

15KG

4319 AQUATEC BF-319 Scale & Corrosion Preventive

Sulfite base liquid formulated for **scale and corrosion protection** in steam boilers. Provides excellent scale inhibition and keeps heat transfer surfaces clean. **Maintains alkalinity and ensure complete corrosion control.** Dose continuously with a proportioning metering pump, but slug dosing is

also acceptable on a pre-designed basis. Non-flammable. **Very Economical.**
Colour: Dark Brown
Dilution: 10ppm / 1ppm of dissolved O₂ in the feed water
pH (1%): 11 ± 0.5

A 4319 02

25L

3539 AQUATEC CD-539 Sludge Dispersant

Polyacrylate base liquid agent for boiler and cooling systems **formulated to hold silt particles or precipitated solids in suspension** so that they may be removed by bleed or blowdown. Extremely effective **for boiler containing high percentage of iron.** Recommended for Circuits with low flow

conditions ie: heat exchanger and cooling jackets. Use on weekly basis. **Non foaming, non-flammable**
Colour: Blue light
Dilution: 500ppm based on circuit volume
pH: 8-9

A 3539 02

25L

2011 AQUATEC DS-220 Descaling Agent

Color coded liquid descaling agent, blend of **organic phosphoric acid and corrosion inhibitors** formulated for boilers and cooling systems. Effectively **removes scale and rust to restore systems to maximum efficiency.** For boilers, heat exchangers, heaters and cooling towers. **Non-**

fuming. Non-corrosive. Safe on steel, brass and aluminium. **Non-flammable.**
Colour: Red
Dilution: Light Scale 1:20 with water, Heavy Scale 1:10
pH (10%): <1

A 2011 02

25L

3480 AQUATEC AF-480 Anti-foam Agent

Polysiloxane base concentrated liquid, designed to **suppress and control excess foam** in boilers, cooling circuits and effluent plants. Can be slug dosed directly to the **boiler drum and cooling tower basin.** May be use occasionally in **effluent plant** due to excess foaming of chemicals

and detergent. **Easily dispersed in water.** Non-flammable. **Safe to use.**
Colour: Hazy Amber
Dilution: 5-40ml / 1000L of water
pH (1%): 6.0 ± 0.5

A 3480 J1

5L x 4

LAUNDRY CARE EXPERTISE



ORAPI offers effective tailored programs for tunnel washers and wash extractors to enhance the entire washing process through premium gentle care detergents, reliable injection dosing systems, state of the art Management Information System and Energy Management Systems that optimize utilities savings and ensures water conservation.

MANAGEMENT INFORMATION SYSTEM

ORAPI provides adapted State-of-the art Management tools for tunnels and wash extractors:

- Maximized efficiency and improve processes
- Enable to reduce operational costs
- Monitoring and control of the relevant washing parameters:
 - Batch analysis (linen type)
 - Daily and monthly production wash load
 - Re-wash analysis (total, per linen type)
 - Chemical concentration analysis (pH, Alkalinity, oxygen, temperature)
- Real time monitoring and control of detergent, water, and energy usage
- Detailed production reports of the overall laundry operation costs
- Remote application
- Diagnostic
- User Friendly Window based software



UTILITIES MANAGEMENT SYSTEM

- Solutions for substantial utilities savings and optimized production efficiency
- Water savings through recovery of waste water
- Washing processes geared towards the recycling of pre-wash and rinse water
- Heat and steam recovery system
- Recovery of energy from waste water discharge through heat exchanger
- Low temperature washing processes (50-60°C) enabling lower energy consumption
- Reporting and control of water, gas, energy
- Assists production supervisor to manage energy operations
- Detailed production reports of the overall laundry operation costs
- Software integrated in Management Information System

TRAINING YOUR STAFF

Our Laundry Specialist deliver theory-based and practical training based on main topics:

- Product applications
- Chemical Safe Handling
- Basic of Laundry
- Bleaches & alkalis
- Laundry Operation flow
- Design of Wash process
- Tunnel Washer and Extractor Basic
- Rewash Process
- Operation: Classification of fabrics, Presorting, Load sizes and loading, Drying and ironing, Storage and stock rotation of linen, General maintenance of the machinery)

For the past 40 years **ORAPI** has worked in partnership with the Textile Care Industry to understand their process from inside and develop innovative Products and Processes which exceed the ever increasing demands in term of hygiene standards, quality, productivity, health & safety as well as environmental regulations.

"ORAPI works every day with On-Premise (OPL) and Commercial laundries to achieve the highest quality wash results at the optimal operating cost."

Conformance

ORAPI HYGIENE prioritizes hygiene standards at the forefront of its offering. Our high quality products are manufactured according to ISO 9001:2015 standards and continually confirmed by major international laundry organisation. To enhance your effectiveness in hygiene approach, **ORAPI HYGIENE** offers a wide selection of gentle care detergents, washing treatment and auxiliary's products. Our clients are guaranteed peace of mind and can be assured that their laundry process meets the best operational efficiency and output.

International Network

With a distribution coverage in more than 150 countries and manufacturing facilities in major continents. **ORAPI HYGIENE** is well positioned to provide the necessary local support and expertise resources backed by a global International Organization.

Safety & Environment

ORAPI HYGIENE is committed to ensure safety and developing products that are environmentally friendly. Our goal is to provide technological innovations which are safe to the public health and maintaining the quality of the environment.



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