



STERILISATION
PACKAGING
CATALOGUE

AUSTRALIA &
NEW ZEALAND



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THE HALYARD* STERILIZATION WRAP ADVANTAGE

Since the introduction of single-use sterilisation wrap, health professionals have looked to the market leader for the resources, innovation and high performance solutions you need.

When it comes to your sterilisation packaging, preserving sterility means protecting your patient. HALYARD* Sterilization Wrap with KIMGUARD* Fabric Technology was the first wrap to receive FDA clearance for all standard sterilisation methods¹, providing you with the reliable solution that you need for optimal patient care and protection.

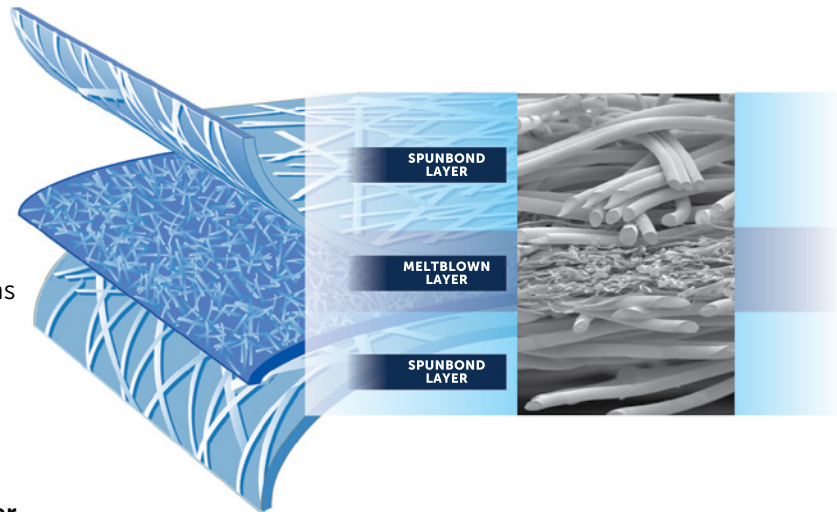
PROTECTION THROUGH STRENGTH

HALYARD* Sterilization Wrap is made out of polypropylene using a five layer (Spunbond-Meltblown-Meltblown-Meltblown-Spunbond) process; the outer layers of the sterilisation wrap provide exceptional strength and durability.

The inner multi-layers of Meltblown fibres provide an optimal barrier to bacteria and liquids while allowing penetration of gas sterilants (steam, ethylene oxide and plasma). The technical definition of layers differs from that of sheets.

Typical examples of the Spunbond/Meltblown/Spunbond are SMS, SSMMS, and SMMS – abbreviations referring specifically to layer configuration, not number of sheets.

It is not possible to differentiate between the number of meltblown layers; **with everything else equal only the meltblown content (thickness) determines barrier properties – not the number of layers.**



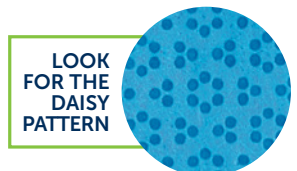
CONFIDENCE

All HALYARD* sterilisation packaging materials are CE-marked and meet AS/NZS 4187 Standards, complying to EN ISO 11607 using tests from EN 868-2.

Next to being strong and being an excellent bacterial barrier, all HALYARD* Sterilization Wrap products have been tested to ensure they meet the Optimum Balance Properties.^{3,4}

YOUR CHECKLIST FOR THE OPTIMUM BALANCE OF PROPERTIES:^{3,4}

Performance Attribute	Clinical Significance
Allows the sterilant to penetrate	• Appropriate sterilisation
Allows air to pass through	
Resists water penetration	• Infection prevention • Barrier efficacy
Resists microbial penetration	
Low linting	
Resists tears, punctures, and abrasion	• Permits aseptic delivery of contents to the sterile field • Fire safety
Does not have excessive "memory"	
Resists ignition / fire	

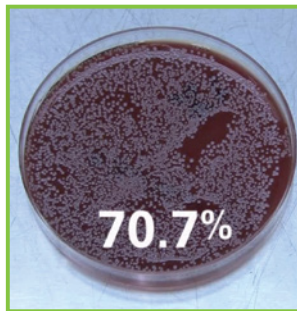


PROTECTION THROUGH AN OPTIMAL BACTERIAL BARRIER

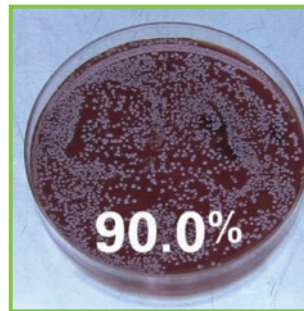
HALYARD* sterilization packaging material is treated with unique POWERGUARD* Technology. The Halyard process infuses the wrap fabric with unique electric micro-fields surrounding the Meltblown fibres.

This varied network of charged fibres forms gradients within the fabric structure, enabling it to be highly effective at microbial capture and retention – so essential in preventing fibre release of captured contaminants over time.

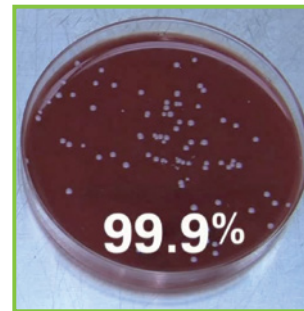
The POWERGUARD* treatment is fabric neutral (pluses and minuses staying separated) and maintains these high capture and retention properties through sterilisation, manipulation and storage.



Reusable sterilisation wrap



SMS sterilisation wrap



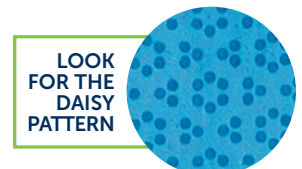
HALYARD* ONE-STEP* Sterilization Wrap H400²

These images illustrate the effect of POWERGUARD* on sterile barrier materials after BFE-testing (ASTM F2101): the plates have been covered respectively with a reusable sterilisation wrap, two layers of SMS sterilisation wrap, and ONE-STEP* Sterilization Wrap H400. The fabric covered plates were then challenged with Staphylococcus aureus bacteria. After twenty-four hours, the wrap is removed and the CFUs are counted to determine the number of bacteria that penetrated through the different sterilisation wrap fabrics. Results are reported in the number of bacteria that are prevented from passing through the material.

BARRIER INTEGRITY

Percent Filtration Efficiency (BFE)	Number Bacteria Passed Through
50%	1,100
70%	660
90%	220
95%	110
96%	88
97%	66
98%	44
99%	22
≥ 99.9%*	0–2

*100% BFE reporting is not permitted per good statistical practices



CLINICALLY SUPERIOR PRODUCTS

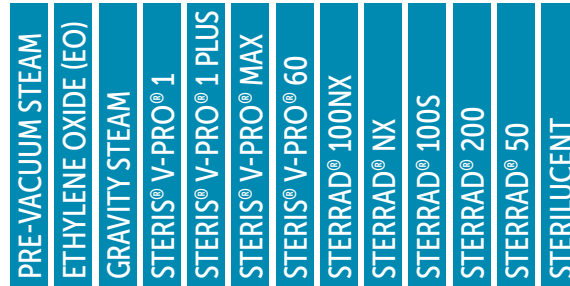
1st and only wrap manufacturer with FDA clearance for ALL approved sterilisation methods.



Only Halyard has 510(k) clearance from the FDA for all standard modalities including Pre-vacuum Steam, Sterrad®, Steris®, V-PRO, EO and Gravity. We also include simplified *Instructions for Use* in every case of wrap.

We continually re-set the bar for product quality and performance through clinical and scientific research directed by on-staff medical professionals as well as peer-to-peer consultation.

ONE STEP* QUICK CHECK* CLEARANCES⁵



DEEP EXPERTISE AND SERVICE



Our Excellence in Sterile Processing (ESP) curriculum offers more than 25 courses that address Central Sterilisation Processing Department requirements.



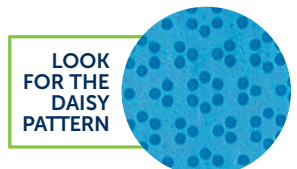
To help drive safety and efficiency, we also offer Sterilisation Packaging Utilisation Reviews (SPURS).

Our team is available to assist you, at no additional cost to your facility, with:

- **In-service training**
- **Evaluations**
- **Clinical Consultancy**
 - Tear Identification and Handling Technique
 - Wet Packs
 - Event Related Sterility Maintenance
- **Technical Consultation Services**
 - Wet Packs Audit
 - Wrap Tear Audit

- **Commitment to Excellence and Sustainability**

As a company that both manufactures and sells our own product, we strive to deliver the highest quality and sustainability standards for our customers. We do this through sustainable sourcing, working with our customers to reduce waste through effective product use and purchasing, and supporting responsible disposal and recycling.



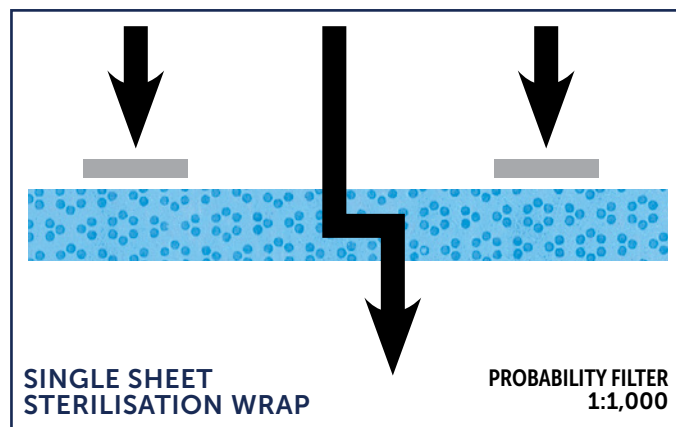
WHY DOUBLE-WRAPPING IS IMPERATIVE FOR OPTIMAL BARRIER PROTECTION

"Sterility assurance levels of 10 to the minus sixth (one part per million) is the level of microorganism colony growth that would be considered not harmful to humans or able to produce disease" ¹⁰

Only double-wrapping provides these assurance levels.¹¹

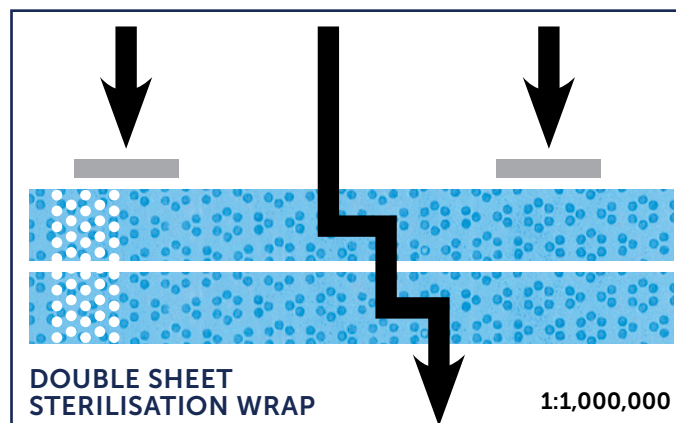
Due to the porosity requirements of SMS for sterilant penetration, no barrier material can be 100% effective in filtering bacteria, therefore assuming 99.9% filtration efficiency there is a:

One in a thousand chance that items wrapped in a single sheet of wrap can become contaminated.

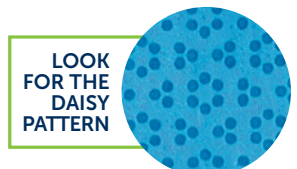


Based on 100 trays processed each day, the potential for contamination is 1 event every 10 days.

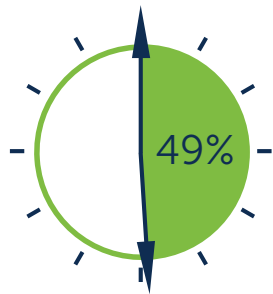
One in a million chance that items wrapped in two sheets of wrap can become contaminated.



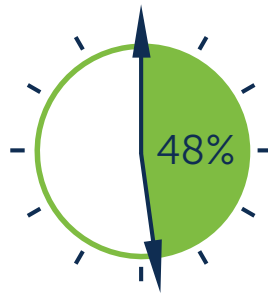
Based on 100 trays processed each day, potential for contamination is 1 event every 27 years.



WHY BONDED WRAP EXHIBITS THE SAME IF NOT BETTER BENEFITS THAN SEQUENTIAL WRAPPING

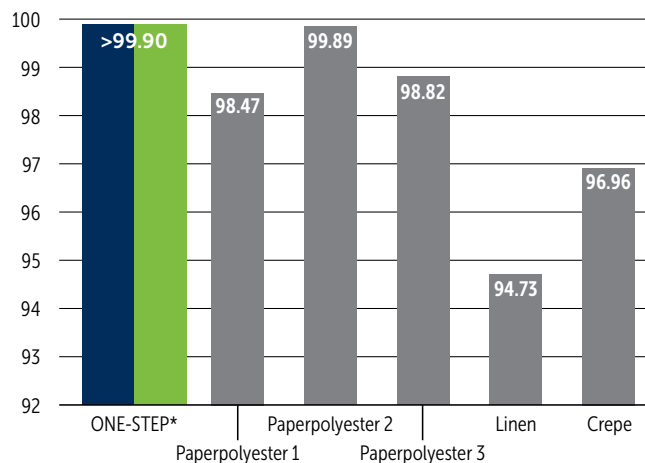


Wrapping Time
49% Saved
 with ONE-STEP*
 vs conventional wrap



Opening Time
48% Saved
 with ONE-STEP*
 vs conventional wrap

ONE-STEP* and QUICK CHECK* Sterilization Wrap allow for single-step wrapping. Studies conducted by Kurt-Salmon Associates demonstrate 49% time saving when wrapping and 48% time saving upon opening.⁶

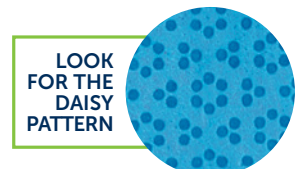


Barrier protection is equal to packaging with 2 single sheets as proven by TNO.^{12,13}

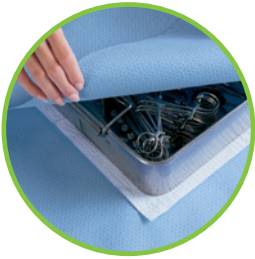
Objective: To objectively evaluate the barrier properties of an assembled, sealed and sterilised pack TNO (The Netherlands Organization for Applied Scientific Research) studied the barrier properties of a selection of sterilisation wrapping materials.

Results: Results are expressed as % retention with zero being no barrier and a retention greater than 99.9% being an efficient barrier. All weights of HALYARD* Sterilization Wrap (both ONE-STEP* and two sheets of HALYARD* Sequential Sterilization Wrap) exhibit the same excellent barrier characteristics.

“...using two barrier-type wrappers provided a tortuous pathway to impede microbial migration and permits ease of presentation to the sterile field without compromising sterility.”¹⁴



At Halyard, we believe that there should be a sterilisation wrap available for every need and for every user. Within the HALYARD* sterilisation portfolio we offer:



HALYARD* SEQUENTIAL STERILIZATION WRAP

PROTECT EVERY TRAY WITH CONFIDENCE – SEQUENTIAL WRAPPING

Extensive independent laboratory testing assures that all HALYARD* Sterilization Wrap delivers the **optimum balance of properties**³ needed to ensure the sterility of your instruments:

- Strength and resistance to tearing³
- Resistance to linting and abrasion³
- Effective microbial barrier³
- Effective sterilant penetration³
- Post sterilisation testing for confidence in sterility of instruments with Event Related Sterility Maintenance Studies.³

Available in four grades: H200, H300, H500 and H600; the higher the number, the stronger the wrap.



QUICK CHECK* STERILIZATION WRAP

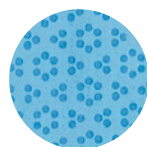
WRAP WITH CONFIDENCE YOU CAN SEE – SIMULTANEOUS WRAPPING

QUICK CHECK* Sterilization Wrap is just like ONE-STEP* Sterilization Wrap but with the added benefit of making inspecting trays easier and faster⁶.

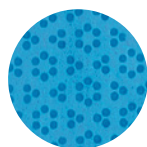
- Delivers the **optimum balance of properties**³
- Two sheets of wrap thermally bonded on both sides allowing you to save up to 49% of time⁶
- Each sheet is a contrasting colour – one white and one blue⁷
- Post sterilisation testing for confidence in sterility of instruments with Final Pack⁸ and Maintenance of Package Integrity⁹ tests.

Available in three grades: H200, H400 and H600; the higher the number, the stronger the wrap.

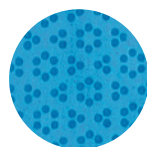
All HALYARD* sterilisation products exist in different sizes and strengths depending on the weight and size of the materials to be packaged:



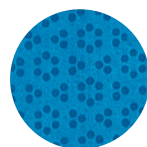
H200



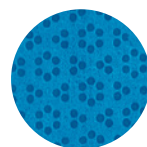
H300



H400

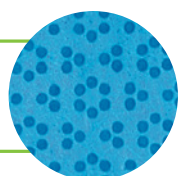


H500



H600

LOOK
FOR THE
DAISY
PATTERN



SEQUENTIAL



HALYARD* SEQUENTIAL STERILIZATION WRAP



- Single sheet polypropylene:
- Features POWERGUARD* Technology for highest bacterial filtration efficiency
- Low in lint
- Different sizes and grades depending on the weight and size of the materials to be packaged
- Water resistant
- Tested for event-related and time-related sterility maintenance.
- Flammability resistant

- Validated with the most current sterilisation modalities:
 - Pre-Vacuum Steam
 - Gravity Steam Sterilisation
 - Ethylene Oxide (EO)
 - Sterrad® Sterilisation Systems†
 - STERILUCENT
 - Steris® Sterilisation Systems††

† Sterrad® NX, Sterrad® 100NX, Sterrad® 100S, Sterrad® 200, Sterrad® 50.

†† Steris® V-PRO® 1, Steris® V-PRO® 1 PLUS, Steris® V-PRO® MAX, Steris® V-PRO® 60.

HALYARD* SEQUENTIAL STERILIZATION WRAP H200

Code	Size	Packaging
68012	30cm x 30cm	Units/Pack = 500 Packs/Case = 2 Units/Case = 1000
68018	45cm x 45cm	Units/Pack = 500 Packs/Case = 2 Units/Case = 1000

HALYARD* SEQUENTIAL STERILIZATION WRAP H300

Code	Size	Packaging
10824	60cm x 60cm	Units/Pack = 250 Packs/Case = 2 Units/Case = 500
10830	76cm x 76cm	Units/Pack = 100 Packs/Case = 3 Units/Case = 300
10836	91cm x 91cm	Units/Pack = 100 Packs/Case = 3 Units/Case = 300
10840	101cm x 101cm	Units/Pack = 50 Packs/Case = 5 Units/Case = 250
10848	121cm x 121cm	Units/Pack = 50 Packs/Case = 2 Units/Case = 100
10854	137cm x 137cm	Units/Pack = 50 Packs/Case = 2 Units/Case = 100
10872	137cm x 182cm	Units/Pack = 50 Packs/Case = 2 Units/Case = 100

Sequential Sterilization Wrap continues over the page...

NOTE: Please see package inserts for directions for use for each of these products.
Always read the label and follow the directions for use.
These products are not available for purchase by the general public.

SEQUENTIAL



HALYARD* SEQUENTIAL STERILIZATION WRAP H500

Code	Size	Packaging
68130	76cm x 76cm	Units/Pack = 125 Packs/Case = 2 Units/Case = 250
68136	91cm x 91cm	Units/Pack = 75 Packs/Case = 2 Units/Case = 150
68148	121cm x 121cm	Units/Pack = 50 Packs/Case = 1 Units/Case = 50
68154	137cm x 137cm	Units/Pack = 50 Packs/Case = 1 Units/Case = 50
68172	137cm x 182cm	Units/Pack = 50 Packs/Case = 1 Units/Case = 50
68160	152cm x 152cm	Units/Pack = 25 Packs/Case = 2 Units/Case = 50

NOTE: Please see package inserts for directions for use for each of these products.
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These products are not available for purchase by the general public.

SIMULTANEOUS



QUICK CHECK* STERILIZATION WRAP

- Two sheets of polypropylene wrap bonded along 2 sides
- Easy breach identification – each sheet contrasting colour, one white and one blue
- Features POWERGUARD* technology for highest bacterial filtration efficiency
- All the double sheet ease and time-savings of ONE-STEP* Sterilization Wrap
- Low in lint
- Different sizes and grades depending on the weight and size of the materials to be packaged
- Water resistant
- Tested for event-related and time-related sterility maintenance
- Flammability resistant



- Validated with the most current sterilisation modalities:
 - Pre-Vacuum Steam
 - Gravity Steam Sterilisation
 - Ethylene Oxide (EO)
 - Sterrad® Sterilisation Systems†
 - STERILUCENT
 - Steris® Sterilisation Systems††

† Sterrad® NX, Sterrad® 100NX, Sterrad® 100S, Sterrad® 200, Sterrad® 50.

†† Steris® V-PRO® 1, Steris® V-PRO® 1 PLUS, Steris® V-PRO® MAX, Steris® V-PRO® 60.

QUICK CHECK* STERILIZATION WRAP H200

Code	Size	Packaging
34167	30cm x 30cm	Applications/Pack = 240 Packs/Case = 2 Applications/Case = 480
34193	45cm x 45cm	Applications/Pack = 240 Packs/Case = 2 Applications/Case = 480
34174	60cm x 60cm	Applications/Pack = 120 Packs/Case = 2 Applications/Case = 240
34175	76cm x 76cm	Applications/Pack = 48 Packs/Case = 3 Applications/Case = 144
34185	91cm x 91cm	Applications/Pack = 48 Packs/Case = 3 Applications/Case = 144
34186	101cm x 101cm	Applications/Pack = 24 Packs/Case = 5 Applications/Case = 120
34149	121cm x 121cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34187	137cm x 137cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34168	137cm x 182cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48

QUICK CHECK* Sterilization Wrap continues over the page...

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SIMULTANEOUS

QUICK CHECK* STERILIZATION WRAP H400



Code	Size	Packaging
34183	60cm x 60cm	Applications/Pack = 60 Packs/Case = 2 Applications/Case = 120
34158	91cm x 91cm	Applications/Pack = 36 Packs/Case = 2 Applications/Case = 72
34184	101cm x 101cm	Applications/Pack = 24 Packs/Case = 3 Applications/Case = 72
34157	114cm x 114cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34145 [†]	121cm x 121cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34146 [†]	137cm x 137cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34191	137cm x 182cm	Applications/Pack = 12 Packs/Case = 2 Applications/Case = 24

QUICK CHECK* STERILIZATION WRAP H500



Code	Size	Packaging
34165	76cm x 76cm	Applications/Pack = 60 Packs/Case = 2 Applications/Case = 120

QUICK CHECK* STERILIZATION WRAP H600



Code	Size	Packaging
34151	91cm x 91cm	Applications/Pack = 36 Packs/Case = 2 Applications/Case = 72
34163	101cm x 101cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34164	114cm x 114cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34147 [†]	121cm x 121cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34142	137cm x 137cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34197	137cm x 182cm	Applications/Pack = 12 Packs/Case = 2 Applications/Case = 24

NOTE: Please see package inserts for directions for use for each of these products.
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PRODUCTS FOR ORTHOPAEDIC TRAYS

At Halyard we understand that your most challenging trays are usually your heaviest, most complex orthopaedic trays. As these trays have the largest volume, you need a range of wraps that have been designed to withstand the weight and deliver confidence in the OR. These wraps are not just limited to orthopaedic – this range would suit any heavy tray.



QUICK CHECK* STERILIZATION WRAP H600

Code	Size	Packaging
34151	91cm x 91cm	Applications/Pack = 36 Packs/Case = 2 Applications/Case = 72
34163	101cm x 101cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34164	114cm x 114cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34147 [†]	121cm x 121cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34142	137cm x 137cm	Applications/Pack = 24 Packs/Case = 2 Applications/Case = 48
34197	137cm x 182cm	Applications/Pack = 12 Packs/Case = 2 Applications/Case = 24

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ACCESSORIES



HALYARD* TRANSPORT TRAY

- Polypropylene with SMS Structure
- Blue

Code	Description	Packaging
KL-1500	Transport Tray, Universal, 29cm x 55cm	Units/Case = 10
KL-1500XL	Transport Tray, Extra Large, 67.6cm x 41.9cm	Units/Case = 5

HALYARD* ABSORBENT TRAY LINERS

- High Absorbency
- High Strength
- Cut To Suit Sterilisation Trays



Code	Size	Description	Packaging
4330	20cm x 24cm	HALYARD* Absorbent Tray Liners Small	Units/Pack = 124 Packs/Case = 4 Units/Case = 496
4331	24cm x 40cm	HALYARD* Absorbent Tray Liners Medium	Units/Pack = 75 Packs/Case = 6 Units/Case = 450
4332	30cm x 50cm	HALYARD* Absorbent Tray Liners Large	Units/Pack = 75 Packs/Case = 6 Units/Case = 450

TERI* WIPERS

- Individually Folded
- Strong Wet Strength with Scrim Reinforcement
- Soft and Absorbent Even After Sterilisation



Code	Size	Description	Packaging
4465	31.5cm x 34cm	TERI* Wipers Small	Units/Pack = 100 Packs/Case = 6 Units/Case = 600
4467	31.5cm x 34cm	TERI* Wipers Small Bulk Pack	Units/Pack = 450
4466	31.5cm x 61cm	TERI* Wipers Large	Units/Pack = 100 Packs/Case = 6 Units/Case = 600

1. Data on File.
2. Comparing like fabric weights. Data on File.
3. Physical Properties Testing Dossier H01104.
4. AORN 2012 Perioperative Standards, Recommended Practices and Guidelines.
5. Data on File.
6. Kurt Salmon & Associates, Inc. Study to quantify the time taken to wrap and open packages using Kimguard One-Step* compared to conventional sequential wrap.
7. Data on File. Kimberly-Clark–GL–COPY–0050/2.
8. Whole of Packaging Microbial Aerosol Challenge Test. Data on File.
9. Maintenance of Package Integrity Study: Dunkleberg, Leximed Reports, 08–L046 to 09–L024.
10. Harter B. Infection Control Today 2003; May Edition
11. Dunkleberg H and Rohmans S. Infection Control and Hospital Epidemiology 2006; 24(4): 367–371.
12. TNO report, May 1999, Determination of the microbial barrier properties of twelve types of packaging material according to the Final Pack Method.
13. TNO report, V6412 April 2005, Determination of the microbial barrier properties of thirty types of packaging material from Kimberly-Clark, according to the Final Pack Method. TNO (Netherlands Organization for Applied Scientific Research) is a not-for-profit organization in the Netherlands that focuses on applied science. As a statutory organization, TNO has an independent position that allows to give objective, scientifically founded judgements.
14. AORN Journal 2000; 72(6): 1052–1059.

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