

**3M** Science.  
Applied to Life.™

# Putting Confidence in Your Hands.

3M Sterilization  
Products and Services  
Full Line Catalogue



# Trusted 3M Sterilization Solutions

Equipment Monitoring

Exposure Monitoring

Pack Monitoring

Load Monitoring

Record Keeping

Low Temperature Sterilization

Medical Device Reprocessing Departments (MDRD) are faced with greater challenges than ever. Increasing demands for quick turnarounds. Pressure to streamline operations and cut costs. The need to keep policies and procedures in line with evolving standards. And of course, the growing expectation to help reduce the risks of surgical site infections and improve patient safety.

3M can help MDR professionals take on these challenges while bringing reassurance to the table with a comprehensive approach to monitoring, record keeping, continuing education and technical support. Healthcare professionals in facilities of all kinds have trusted 3M sterilization products for more than 60 years.

We're ready with the proven tools and technologies that put confidence in your hands.

# Table of Contents

5	Why Trust 3M for Sterilization Monitoring
6	The Sterilization Process
9	The Importance of Monitoring
10	Standards Practice
13	The Classes of Steam Chemical Indicators
15	Load Monitoring Solutions
27	Pack Monitoring Solutions
31	Equipment Monitoring Solutions
33	Exposure Monitoring Solutions
35	Record Keeping Solutions
38	Miscellaneous Monitoring Solutions
39	Low Temperature Sterilization Solutions



# Together we can make a difference

3M understands the challenges you face in instrument reprocessing. We're a global leader in the manufacture, supply and continuing innovation of biological and chemical indicators for sterilization monitoring. We have led the way in developing new technologies and techniques. This includes a comprehensive portfolio of products, services and expertise to help you maintain the highest sterilization standards.

Our Applications Development and Technical Service group is an integral part of our organization. Staffed with experienced personnel with backgrounds in microbiology, chemistry and other related disciplines, they provide direct support to our customers. Drawing from our extensive experience in sterilization, they are not only experts on product-related issues but also problem solvers with the clinical understanding and knowledge of relevant standards to advise you and rally the resources required to get your questions answered.

Organizations in more than 60 countries already depend on 3M for innovative products, new ideas and creative solutions to help reduce the risk of healthcare associated infections. We'll work with you to meet the needs of your organization—from the high volume of large facilities to the special needs of outpatient surgery centres and primary care clinics.

There are five essential steps in instrument reprocessing:

1) Clean & Disinfect, 2) Prep & Pack, 3) Sterilize, 4) Store, and 5) Issue or Use.

Monitoring tools verify the outcome of the “Sterilize” step and supply safeguards to the “Issue/Use” step, so patients are not exposed to non-sterile medical devices. The threat of surgical site infections (SSIs) caused by non-sterile devices makes following every step in sterilization process monitoring absolutely critical.



The fact that your instruments have been run through the sterilizer does not guarantee they're sterile. Many things can adversely affect the sterilization process, including:

- Improper loading or packaging
- Sterilizer malfunction
- Incorrect time or temperature
- Incomplete air removal
- Sterilant failing to reach the centre of the pack
- Steam quality issues

# The 5 Steps to Sterile

## 1. CLEAN & DISINFECT

Cleaning and disinfecting is critical to the sterilization process. Soil CANNOT be sterilized, so the presence of soil or organic material on instruments reduces the effectiveness of disinfection or sterilization. If your instruments need to be high level disinfected, you must check the concentration of the high level disinfectant in the processor/soaking tray to ensure it's at or above the minimum effective concentration. When timelines are tight and ORs are requesting quick turnarounds, there may be pressure to cut corners in the cleaning process. Failure to thoroughly clean and disinfect items for sterilization, however, can jeopardize the entire process.

## 5. ISSUE OR USE

Finally, upon request, items are retrieved from storage, checked again to ensure the external Chemical Indicator has reached its endpoint, and then issued for use. Once in the OR, the Internal Chemical Indicators are checked to ensure that the sterilization process was sufficient to penetrate inside of the pack.

## 2. PREP & PACK

When preparing items for sterilization, instruments should be dried and inspected for cleanliness and functionality. Multi-part instruments should be disassembled. Instruments should be held open and unlocked. Whether using sterilization wrappers, paper-plastic pouches or rigid container systems, it's important to properly place Internal and External Chemical Indicators to effectively monitor sterilant penetration and other exposure conditions. The CSA recommends labeling each individual pack, so items can be located easily in the event of a recall.

## 3. STERILIZE

Next, instruments are exposed to the actual sterilant (steam, ethylene oxide, etc.). Successful sterilization depends on sterilant contact with all surfaces for the prescribed time. To ensure effective sterilization, the process must be monitored routinely through equipment displays and printouts and also through proper selection and use of Biological and Chemical Indicators.

## 4. STORE

Packages are removed from the sterilizer and quality system documentation is completed. Appropriate storage is required to ensure the integrity of the packaging and the continued sterility of the packages.

STERILE PROCESSING DEPARTMENT



**Putting Confidence  
in Your Hands.**

# Monitoring solutions from the technology leader

Routine monitoring is the best way to verify that your sterilizers are functioning as they should, your loads have been exposed to lethal conditions, your sterilant has penetrated deeply enough into each pack, and your sealed packs have been exposed to the sterilization process.

3M is the world leader in sterilization monitoring solutions. Our complete portfolio of differentiated, clinically preferred products can help you streamline your operations, standardize your protocols and, most importantly, provide the best possible care for your patients. Products like 3M™ Attest™ Super Rapid Readout Biological Indicators and 3M™ Comply™ Bowie-Dick Plus Test Packs can significantly reduce the time required to see critical information about the sterilization process. Our Type 5 3M™ Comply™ (SteriGage™) Chemical Integrator features moving front ink technology, with an easy to interpret 'Accept or Reject' result. 3M™ Comply™ Lead Free-Latex Free Indicator Tape features 3M's renowned adhesive technologies to ensure pack security, while providing the at-a-glance information you need to quickly confirm sterilization exposure.

# Implement Standards Practice for Steam Sterilization with the 3M Core Four



## EQUIPMENT MONITORING

Is your sterilizer actually doing its job? That's the role of Equipment Monitoring devices such as Bowie-Dick type tests, which detect air leaks, inadequate air removal, poor steam penetration and the presence of non-condensable gases—any of which can compromise sterility.

### Practical Applications of the Standards

- (1) Use daily before the first processed load in each pre-vacuum sterilizer.
- (2) The Bowie-Dick test pack should always be run in a warm sterilizer to avoid false failures.
- (3) Place the Bowie-Dick test pack on the bottom shelf of the cart or rack, over the drain, in an empty sterilizer.

### Recommended 3M Product

3M™ Comply™ Bowie-Dick Plus Test Pack 00135LF contains a proprietary early warning test sheet.



## LOAD MONITORING

Load Monitoring is the process by which a load is monitored and released based on the result of a Biological Indicator (BI) in a Process Challenge Device (PCD). Only a BI can detect the actual lethality to microbial spores in a sterilization cycle.

### Practical Applications of the Standards

- (1) Use at least daily in each sterilizer with the first processed load.
- (2) Loads containing implants should be monitored with a BI PCD that contains a Type 5 CI and quarantined until the BI results are known.
- (3) A positive control should be incubated each day a test BI is incubated in each 3M™ Attest™ Auto-reader or Incubator.
- (4) If a test BI is positive, and the cause of the failure is not immediately identifiable, all items from that load and all items from loads processed since the last load with a negative BI result should be recalled and reprocessed.

### Recommended 3M Product

3M™ Attest™ Super Rapid Readout Biological Indicator technology provides fast results.

## PACK MONITORING

Packs, trays, containers and peel pouches must be monitored internally to ensure proper sterilization. Internal pack monitoring with Chemical Indicators verifies that the sterilant has penetrated to where the Chemical Indicator is placed in the pack, and it confirms that specific exposure conditions have been met.

### Practical Applications of the Standards

- (1) Use an internal CI in each package
- (2) For steam sterilization, place a pack monitor in the geometric centre of each pack, peel pouch or tray. In multi-level wrapped containers, place a pack monitor in the centre of the top level and opposite corners of lower levels .
- (3) If a pack monitor fails, that package should not be used.

### Recommended 3M Product

3M™ Comply™ (SteriGage™) Type 5 Integrating Indicators 1243 have easy to interpret “moving front style” ink technology.

## EXPOSURE MONITORING

How do you know for sure whether packs have been exposed to the sterilization process? Exposure monitoring products assure the health care professional at a glance whether the pack has been exposed—without having to open the pack.

### Practical Applications of the Standards

Use an external Chemical Indicator on the outside of each package.

### Recommended 3M Product

3M™ Comply™ Indicator Tapes are lead free and latex free and do not require hazardous waste disposal.

## RECORD KEEPING

Underlying each aspect of the 3M sterilization process quality monitoring system is Record Keeping. Envelopes, forms, labels and electronic systems provide documentation of which items have been processed, along with evidence of the cycle monitoring results. Good records allow you to trace each pack through the levels of sterility assurance, making it easier to diagnose any problems. And if you use a BI for Load Monitoring in every load, you can be confident that you’re providing the highest level of service and care for patients in your facility.



**3M Comply™ SteriGage™**  
Steam  
Chemical  
Integrator  
Class 5

DARK BAR MUST  
PASS THIS POINT

**REJECT** **ACCEPT** EXTRAM

U.S. Pat. No. 4,448,568

# The Types of Steam Chemical Indicators

The Canadian Standards Association (CSA) and the International Organization for Standardization (ISO) define 6 classes or types of Chemical Indicators in the 11140-1:2014 standard. Each Type of Chemical Indicator has its own unique characteristics and intended use, and the numbering system (Class or Type 1 – 6) has no hierarchical significance. Refer to the Standard for more detailed information.

CSA Z314.3-14 Description	CLASS	PRACTICAL APPLICATIONS
“Class 1 (process indicators) serve only to distinguish processed goods from items that have not been sterilized.” These indicators are also referred to as external CIs.	<b>1</b> Process indicators	Indicator tapes, indicator labels and load cards are examples of Class 1 Process Indicators for exposure control.
“Class 2 (specific tests, e.g., Bowie-Dick) are employed in special applications such as the Bowie-Dick air removal test. They measure a specific attribute such as air removal or steam penetration.”	<b>2</b> Specific test indicators	Usually called Bowie-Dick type tests, Class 2 Indicators are used to evaluate sterilizer performance.
“Class 3 (single variable indicators) respond to a single sterilization variable such as time or temperature. They provide limited information regarding the overall efficacy of a sterilization process.”	<b>3</b> Single variable indicators	Single-variable Indicators may be used for pack control monitoring, but do not provide as much information as Multi-variable Indicators or Integrating Indicators. (Not typically used in U.S. healthcare facilities.)
“Class 4 (multi-variable indicators) respond to two or more of the critical variables of the sterilization process.”	<b>4</b> Multi-variable indicators	Multi-variable Chemical Indicators are used for internal pack control. They usually consist of paper strips that are printed with a chemical indicator.
“Class 5 (integrating indicators) are designed to react to all critical process variables. The stated values (SVs) are generated to be equivalent to, or exceed the performance requirements for biological indicators.”	<b>5</b> Integrating indicators	Use Integrating Indicators for both pack and load control monitoring in conjunction with BIs.
“Class 6 (emulating indicators) are designed to react to all critical process variables for specified sterilization cycles. The SVs are generated from the critical process variables of the specified sterilization process and are related to the minimum values required to achieve sterilization.”	<b>6</b> Emulating indicators	Emulating Indicators are designed for specific sterilization cycles and should be used only to monitor the specific cycle for which they are labeled.



**Putting Time  
in Your Hands.**

## 3M Infection Prevention Solutions

# Products for Load Monitoring

## 3M™ Attest™ Super Rapid Readout Biological Indicator System

Load Monitoring is the process by which a load is monitored and released based on the final negative result of a Biological Indicator (BI) in a Process Challenge Device (PCD). According to the CSA Z314.3-14 standard, a BI is required daily for each steam sterilizer and cycle type used, as well as in every load that contains an implant. Only a BI can detect the actual killing of microbial spores inside the sterilizer. A BI PCD, a Type 5 Integrating Indicator\* PCD or a Type 6 Emulating Indicator\* PCD are options for monitoring non-implant loads. As a best practice and to provide optimal patient safety, 3M recommends that every sterilization load be monitored with an appropriate biological indicator.

### Feature product: 3M™ Attest™ Super Rapid 5 Steam-Plus Challenge Pack

- Includes a 3M™ Attest™ Super Rapid Readout Biological Indicator (BI) that provides results in just one hour and a 3M™ Comply™ (SteriGage™) moving-front Type 5 Integrating Indicator.
- Meets CSA Z314.3-14 steam sterilization guidelines for PCD load monitoring requirements of implants.
- Now you get biological indicator results in about the time it takes to cool a load. This allows you to have results in hand before you release a load for use, which can help reduce the risk and costs of recalls.
- Combining one-hour results with an Every Load Monitoring program, you can provide every patient under your watch the highest standard of care and get instruments to the OR on time, every time.



### Best Practices

- A positive control should be incubated each day a test BI is incubated in each 3M™ Attest™ Auto-reader.
- If a test BI is positive, and the cause of the failure is not immediately identifiable, all items from that load and all items from loads processed since the last load with a negative BI result should be recalled and reprocessed.
- Loads containing implants should be quarantined until the BI results are known.

\*As defined by ISO 11140-1:2014

# Steam Sterilization – Super Rapid Readout Monitoring

## STEAM - 1-hour

### 3M™ Attest™ Super Rapid 5 Steam-Plus Challenge Pack for 132-135°C (270-275°F) Vacuum-Assisted Steam Sterilization

Each pack contains one 3M™ Attest™ Super Rapid Readout Biological Indicator 1492V and one Type 5 3M™ Comply™ SteriGage™ Steam Chemical Integrator.

- Results in one hour
- This convenient disposable challenge pack presents a challenge to the sterilization process equivalent to the user-assembled BI challenge test pack (towel PCD) recommended by CSA



Cat. No.	Description	Packaging	Shipping
41482V*	Steam Biological Challenge Pack (24 controls/box)	24 each/box	1 box/case
41482VF*	Steam Biological Challenge Pack (5 controls/box)	24 each/box	1 box/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 490.

## STEAM - 1-hour

### 3M™ Attest™ Super Rapid Readout Steam Challenge Pack for 132-135°C (270-275°F) Vacuum-Assisted Steam Sterilization

Each pack contains one 3M™ Attest™ Super Rapid Readout Biological Indicator 1492V.

- Results in one hour
- This convenient disposable challenge pack presents a challenge to the sterilization process equivalent to the user-assembled BI challenge test pack (towel PCD) recommended by CSA



Cat. No.	Description	Packaging	Shipping
1496V*	Steam Biological Challenge Pack (24 controls/box)	24 each/box	1 box/case
1496VF*	Steam Biological Challenge Pack (5 controls/box)	24 each/box	1 box/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 490.

## STEAM - 1-hour

### 3M™ Attest™ Super Rapid Readout Biological Indicator for 132-135°C (270-275°F) Vacuum-Assisted Steam Sterilization

- Results in one hour
- Meets ISO and FDA performance requirements for biological indicators



Cat. No.	Description	Packaging	Shipping
1492V*	Steam Biological Indicator (Brown cap)	50 each/box	4 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 490.

## STEAM - 1-hour

### 3M™ Attest™ Super Rapid Readout Biological Indicator for 132-135°C (270-275°F) Gravity-Displacement Steam Sterilization Cycles (Blue Cap)

- Results in 30 minutes
- Meets ISO and FDA performance requirements for biological indicators



Cat. No.	Description	Packaging	Shipping
1491*	Steam Biological Indicator (Blue cap)	50 each/box	4 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 490.

STEAM

3M™ Attest™ Auto-reader 490	Cat. No.	Description	Packaging	Shipping
<p>For use with 3M™ Attest™ Super Rapid Readout Biological Indicators and Process Challenge Packs.</p> <ul style="list-style-type: none"> <li>• Intelligent display with time-to-result countdown feature</li> <li>• Connects to select sterile processing software systems</li> <li>• Display viewable remotely using your Smartphone or PC</li> <li>• Manage record-keeping with Web App and your internet connected PC</li> <li>• Includes ethernet cable for Web App connectivity</li> </ul>	490	Auto-reader for use with 3M™ Attest™ Super Rapid Biological Indicators for Steam 1492V, 1491, 56° C (133° F)	1 unit/box	1 box/case



STEAM

3M™ Attest™ Log Book	Cat. No.	Description	Packaging	Shipping
<p>Preprinted log book puts all the information you need to help meet requirements right at your fingertips.</p> <ul style="list-style-type: none"> <li>• For use with 3M™ Attest™ Super Rapid Readout Biological Indicator 1492V, 1491</li> </ul>	1466	Log Book with 50 record charts	1 each/pack	1 pack/case





# 3M™ Attest™ Rapid Readout Biological Indicator System

Load Monitoring is the process by which a load is monitored and released based on the final negative result of a Biological Indicator (BI) in a Process Challenge Device (PCD). According to the CSA Z314.3-14 standard, a BI is required daily for each steam sterilizer and cycle type used, as well as in every load that contains an implant. Only a BI can detect the actual killing of microbial spores inside the sterilizer. A BI PCD, a Type 5 Integrating Indicator\* PCD or a Type 6 Emulating Indicator\* PCD are options for monitoring non-implant loads. As a best practice and to provide optimal patient safety, 3M recommends that every sterilization load be monitored with an appropriate biological indicator.

## Feature product: 3M™ Attest™ Rapid 5 Steam-Plus Test Pack

- Includes a 3M™ Attest™ Rapid Readout Biological Indicator (BI) that provides results in three hours and a 3M™ Comply™ (SteriGage™) moving-front Type 5 Integrating Indicator.
- Meets CSA Z314.3-14 steam sterilization guidelines for PCD load monitoring requirements of implants.
- Enables you to make decisions and take action prior to surgery, helping to reduce the risk and costs of recalls and surgical infections.



## Best Practices

- A positive control should be incubated each day a test BI is incubated in each 3M™ Attest™ Auto-reader.
- If a test BI is positive, and the cause of the failure is not immediately identifiable, all items from that load and all items from loads processed since the last load with a negative BI result should be recalled and reprocessed.
- Loads containing implants should be quarantined until the BI results are known.

\*As defined by ISO 11140-1:2014

# Steam Sterilization – Rapid Readout Monitoring

## STEAM - 3-hour

**3M™ Attest™ Rapid 5 Steam-Plus Test Pack for 121°C (250°F) ≥ 30-minute Gravity and 132-135°C (270-275°F) Vacuum-Assisted Steam Sterilization**

Each test pack contains a 3M™ Attest™ Rapid Readout Biological Indicator 1292 and a Type 5 3M™ Comply™ (SteriGage™) Steam Chemical Integrator.

- Results in three hours
- Test packs present a challenge to the sterilization process equivalent to the CSA recommended towel pack



Cat. No.	Description	Packaging	Shipping
41382*	Steam-Plus Test Pack (16 controls/box)	16 packs/box	4 boxes/case
41382F*	Steam-Plus Test Pack (4 controls/box)	16 packs/box	4 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390.

## STEAM - 3-hour

**3M™ Attest™ Rapid Readout Biological Test Pack for 121°C (250°F) ≥ 40-minute Gravity and 132-135°C (270-275°F) Vacuum-Assisted Steam Sterilization**

Each test pack contains a 3M™ Attest™ Rapid Readout Biological Indicator.

- Results in three hours
- Test packs present a challenge to the sterilization process equivalent to the CSA recommended towel pack



Cat. No.	Description	Packaging	Shipping
1296*	Steam Biological Test Pack (25 controls/box)	25 packs/box	1 box/case
1296F*	Steam Biological Test Pack (5 controls/box)	25 packs/box	1 box/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390.

STEAM - 3-hour

**3M™ Attest™ Rapid Readout Biological Indicator for 121°C (250°F) Gravity and 132-135°C (270-275°F) Vacuum-Assisted Steam Sterilization**

- Results in three hours



Cat. No.	Description	Packaging	Shipping
1292*	Steam Biological Indicator (Brown cap)	50 each/box	4 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390.

STEAM - 1-hour

**3M™ Attest™ Rapid Readout Biological Indicator for 132°C (270°F) Gravity Displacement Steam Sterilization**

- Results in one hour



Cat. No.	Description	Packaging	Shipping
1291*	Steam Biological Indicator (Blue cap)	50 each/box	4 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390.

STEAM

**3M™ Attest™ Auto-reader 390**

- For use with 3M™ Attest™ Rapid Readout Biological Indicators 1291 and 1292
- Backlit LCD panel for fast, easy reading of data, including at-a-glance minutes remaining in incubation
- Easy custom configuration buttons on top of the unit
- Remote viewing of BI results from your Smart Phone or PC
- Saving or printing incubation records from web app
- Ability to connect to select instrument-tracking software systems



Cat. No.	Description	Packaging	Shipping
390	Auto-reader for use with 3M™ Attest™ Rapid Readout Biological Indicators for Steam 1291 and 1292, 60°C (140°F)	1 unit/box	1 box/case

# Steam Sterilization – Standard Readout Monitoring

## STEAM - 48-hour

**3M™ Attest™ Steam-Plus Test Pack for 121°C (250°F) ≥ 30-minute Gravity Steam Sterilization and 132-135°C (270-275°F) Vacuum-Assisted Steam Sterilization**

Cat. No.	Description	Packaging	Shipping
----------	-------------	-----------	----------

Each pack contains a 3M™ Attest™ Biological Indicator 1262 and a Type 5 3M™ Comply™ (SteriGage™) Steam



41380*	Steam-Plus Test Pack (4 controls/box)	16 packs/box	4 boxes/case
--------	---------------------------------------	--------------	--------------

\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 116.

Chemical Integrator.

- Biological indicator vials are easy to use and interpret with visual colour readout in 48 hours
- Test packs present a challenge to the sterilization process equivalent to the CSA recommended towel pack

## STEAM - 48-hour

**3M™ Attest™ Biological Test Packs for 121°C (250°F) Gravity Displacement and 132-135°C (270-275°F) Vacuum-Assisted Steam Sterilization**

Cat. No.	Description	Packaging	Shipping
----------	-------------	-----------	----------

Each test pack contains a 3M™ Attest™ Biological Indicator 1262.



- Biological indicator vials are easy to use and interpret with visual colour readout in 48 hours
- Test packs present a challenge to the sterilization process equivalent to the CSA recommended towel pack

1276*	Steam Biological Test Pack (25 controls/box)	25 packs/box	1 box/case
1276F*	Steam Biological Test Pack (5 controls/box)	25 packs/box	1 box/case

\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 116.

## STEAM - 48-hour

**3M™ Attest™ Biological Indicators for 121°C (250°F) Gravity Displacement and 132-135°C (270-275°F) Vacuum-Assisted Steam Sterilization**

Cat. No.	Description	Packaging	Shipping
----------	-------------	-----------	----------

- Biological indicator vials are easy to use and interpret with visual colour readout in 48 hours



1262*	Steam Biological Indicator (Brown cap)	100 each/box	4 boxes/case
1262P*	Steam Biological Indicator (Brown cap)	25 each/box	4 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 116.

STEAM - 24-hour

**3M™ Attest™ Biological Indicators for 132°C (270°F) Gravity Displacement Steam Sterilization**

- Biological indicator vials are easy to use and interpret with visual colour readout in 24 hours



Cat. No.	Description	Packaging	Shipping
1261*	Steam Biological Indicator (Blue cap)	100 each/box	4 boxes/case
1261P*	Steam Biological Indicator (Blue cap)	25 each/box	4 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 116.

STEAM

**3M™ Attest™ Biological Indicator Incubators**

Provide optimal conditions for accurate readout of 3M™ Attest™ Biological Indicators.

- 14-vial capacity
- Dry-block design pre-set to proper incubation temperature



Cat. No.	Description	Packaging	Shipping
116	14-vial (round), 56°C (Steam), for use with Steam Biological Indicator 1261 or 1262	1 each/box	1 box/case

STEAM

**3M™ Attest™ Biological Indicator Monitoring Starter Kit**

Everything you need for effective monitoring of the steam sterilization process. Consists of:

- One roll of 3M™ Comply™ Indicator Tape 1322
- One box of 3M™ Attest™ Biological Indicators 1262P
- One 3M™ Attest™ Incubator 116
- One bag of 3M™ Comply™ (SteriGage™) Chemical Integrators 1243B
- One 3M™ Attest™ Log Book 1266-A
- Wall Chart



Cat. No.	Description	Packaging	Shipping
115C	Monitoring Starter Kit	1 each/box	1 box/case

# Ethylene Oxide Sterilization – Rapid Readout Monitoring

## ETHYLENE OXIDE - 4-hour

### 3M™ Attest™ Rapid Readout Biological Test Pack for Ethylene Oxide (EO) Sterilization

Each test pack contains a 3M™ Attest™ Rapid Readout Biological Indicator 1294 for Ethylene Oxide.

- Results in four hours



Cat. No.	Description	Packaging	Shipping
1298*	EO Test Pack (25 controls/box)	25 packs/box	2 boxes/case
1298F*	EO Test Pack (5 controls/box)	25 packs/box	2 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390G.

## ETHYLENE OXIDE - 4-hour

### 3M™ Attest™ Rapid Readout Biological Indicator for Ethylene Oxide (EO) Sterilization

- Results in four hours



Cat. No.	Description	Packaging	Shipping
1294*	EO Biological Indicator (Green cap)	50 each/box	4 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390G.

## ETHYLENE OXIDE - 4-hour

### 3M™ Attest™ Auto-reader 390G

- For use with 3M™ Attest™ Rapid Readout Biological Indicators 1294 for Ethylene Oxide
- Backlit LCD panel for fast, easy reading of data, including at-a-glance minutes remaining in incubation
- Easy custom configuration buttons on top of the unit
- Remote viewing of BI results from your Smart Phone or PC
- Saving or printing incubation records from web app
- Ability to connect to select instrument-tracking software systems



Cat. No.	Description	Packaging	Shipping
390G	Auto-reader for use with 3M™ Attest™ Rapid Readout Biological Indicator for EO 1294, 37°C (98.6°F)	1 unit/box	1 box/case

# Ethylene Oxide Sterilization – Standard Readout Monitoring

## ETHYLENE OXIDE - 48-hour

### 3M™ Attest™ Test Packs for Ethylene Oxide (EO) Sterilization

Each test pack contains a 3M™ Attest™ Biological Indicator 1264.

- Biological indicator vials are easy to use and interpret with visual colour readout in 48 hours
- Test packs present a challenge to the sterilization process equivalent to the CSA recommended packs



Cat. No.	Description	Packaging	Shipping
1278**	EO Test Pack (25 controls/box)	25 packs/box	2 boxes/case
1278F**	EO Test Pack (5 controls/box)	25 packs/box	2 boxes/case

\*\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 127.

## ETHYLENE OXIDE - 48-hour

### 3M™ Attest™ Biological Indicators for Ethylene Oxide (EO) Sterilization

- Biological indicator vials are easy to use and interpret with visual colour readout in 48 hours



Cat. No.	Description	Packaging	Shipping
1264**	EO Biological Indicator (Green cap)	100 each/box	4 boxes/case
1264P**	EO Biological Indicator (Green cap)	25 each/box	4 boxes/case

\*\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 127.

## ETHYLENE OXIDE

### 3M™ Attest™ Biological Indicator Incubators

Provide optimal conditions for accurate readout of 3M™ Attest™ Biological Indicators.

- 28-vial capacity
- Dry-block design pre-set to proper incubation temperature



Cat. No.	Description	Packaging	Shipping
127	28-vial (2-tier), 37°C (EO), for use with EO Biological Indicator 1264	1 each/box	1 box/case

# Other Products for Load Monitoring

## STEAM

### 3M™ Comply™ (SteriGage™) Steam Chemical Integrator Test Pack

Pack consists of a Type 5\* 3M™ Comply™ (SteriGage™) Steam Chemical Integrator in a small test pack of porous substrate with a moisture impervious, quality disposable wrap.

- Test pack presents a challenge to the sterilization process equivalent to the CSA recommended towel pack



Cat. No.	Description	Packaging	Shipping
41360	Test Pack with 3M™ Comply™ (SteriGage™) Steam Chemical Integrator	16 packs/ box	4 boxes/ case

\*As defined by ISO 11140-1:2014

## 3M Infection Prevention Solutions

# Products for Pack Monitoring

Pack Monitoring Products verify whether a sterilant has penetrated to the point where the Chemical Indicator (CI) was placed in the pack. These Type 4, 5 or 6 CIs\* are designed to react to two or more of the critical variables required for sterilization to occur—for steam sterilization, the critical variables are time, temperature and the presence of steam.

3M™ Comply™ SteriGage™ Steam Chemical Integrators feature a “moving front” style readout for easy-to-interpret accept or reject results. Optional extenders are available for fast retrieval from inner packs. This ISO Type 5 Integrating Indicator correlates to the performance of a biological indicator at three time/temperature relationships under ideal steam sterilization conditions.

### Best Practice

- Use a Type 4, Type 5 or Type 6\* Pack Monitoring Chemical Indicator inside every pack.

\*As defined by ISO 11140-1:2014

### STEAM

#### 3M™ Comply™ (SteriGage™) Steam Chemical Integrators (ISO Type 5\*)

Immediate, accurate and easy-to-read monitoring of sterilization process conditions inside packs.

For use in all steam sterilizers.

- “Moving front” style has accept/reject readout for instant results with easy interpretation
- Convenient size for all packs with optional extenders available
- Type 5 Integrating Indicator as classified by ISO 11140-1:2014
- Performance requirements ensure the response correlates with a BI at three time/temperature relationships under ideal steam sterilization conditions



Cat. No.	Description	Packaging	Shipping
1243A	Steam Chemical Integrator, moving front, 5.1 cm x 1.9 cm (2" x 3/4")	500 each/ bag	2 bags/ case
1243B	Steam Chemical Integrator, moving front, 5.1 cm x 1.9 cm (2" x 3/4")	100 each/ bag	10 bags/ case
1243RE	Steam Chemical Integrator, moving front with extender, 22.86 cm x 1.77 cm (9" x 7/10")	500 each/ bag	2 bags/ case

\*As defined by ISO 11140-1:2014

# Products for Pack Monitoring

## STEAM

### 3M™ Comply™ Steam Emulating Indicator (ISO Type 6\*)

Type 6 Emulating Indicator reacts to the critical variables required for steam sterilization for a specific sterilization cycle.

- For use as an internal chemical indicator in 4-minute 134°C (274°F) dynamic-air-removal steam sterilization cycles.
- Plastic lamination protects sterilized items from potential ink transfer.



Cat. No.	Description	Packaging	Shipping
6601	Steam Emulating Indicator, 10.80 cm x 0.63 cm (4.25" x .25")	250 items/pouch	20 pouch/case

\*As defined by ISO 11140-1:2014

## STEAM

### 3M™ Comply™ Steam Chemical Indicator-Plus Strips (ISO Type 4\*)

For use as an internal chemical indicator in 132°C (270°F) steam sterilization cycles (00117) or 121°C (250°F) steam sterilization cycles (00119).



- Each strip has two purple ink bars that change colour in sequence during exposure to saturated steam.
- A clear protective coating over the ink bars prevents the ink from touching items being sterilized.

Cat. No.	Description	Packaging	Shipping
00117	Short Form—132°C (270°F) Indicator for use in 270°F dynamic-air-removal and gravity sterilizers, 1.5 cm x 10.8 cm (5/8" x 4-1/4")	200 each/box	20 boxes/case
00119	Short Form—121°C (250°F) Indicator for use in 250°F gravity sterilizers, 1.5 cm x 10.8 cm (5/8" x 4-1/4")	200 each/box	20 boxes/case

\*As defined by ISO 11140-1:2014

## STEAM

### 3M™ Comply™ Steam Chemical Indicator Strips (ISO Type 4\*)

Distinct colour change indicates process results inside each pack.

- Colour changes to dark brown/black when exposed to steam sterilization. For use in all steam sterilizers.
- Long strip of chemical indicator ink printed on perforated-style strip. Allows full- or half-length use for different pack sizes.



Cat. No.	Description	Packaging	Shipping
1250	Steam Chemical Integrator Strip, 1.5 cm x 20 cm (5/8" x 8")	240 each/box	8 boxes/case

\*As defined by ISO 11140-1:2014

ETHYLENE OXIDE

**3M™ Comply™ Ethylene Oxide (EO) Chemical Indicator Strip**

For use in sterilization cycles with 100% EO and EO/HCFC gas mixtures.

- Long strip of chemical indicator ink printed on perforated-style strip. Allows full- or half-length use for different pack sizes.
- Indicator changes from red to green when exposed to EO sterilization conditions.



Cat. No. Description

1251 EO Chemical Indicator Strip, 1.5 cm x 20 cm (5/8" x 8")

Packaging

240 each/box

Shipping

1 box/case



VAPOURIZED HYDROGEN PEROXIDE

**3M™ Comply™ Gas Plasma Chemical Indicator Strip**

An internal pack chemical indicator for use in STERRAD® Sterilization Processes (Models 100S, 100NX, NX and 100).

- Indicator changes from blue to pink when exposed to vapour hydrogen peroxide.
- When exposed to light, indicator colour will not fade for up to one month.



Cat. No. Description

1248 Gas Plasma Chemical Indicator Strip, 2.0 cm x 10 cm (13/16" x 4")

Packaging

250 each/box

Shipping

4 boxes/case



**Putting Trust  
in Your Hands.**

## 3M Infection Prevention Solutions

# Products for Equipment Monitoring

Equipment Monitoring is a way to find out whether or not your sterilizer is doing its job properly. To monitor vacuum-assisted steam sterilizers, you begin each day with a Bowie-Dick type test to detect air leaks, inadequate air removal, inadequate steam penetration and the presence of non-condensable gases, any of which can compromise sterility.

The 3M™ Comply™ Bowie-Dick Plus Test Pack with Early Warning Test Sheet can also provide advance notice of sterilizer problems, so the sterilizer can be repaired before it must be taken out of use.

### Best Practices

- Use a Class 2 Bowie-Dick type test pack\* every day inside vacuum-assisted sterilizers.
- The Bowie-Dick test should always be run in a warm sterilizer to avoid false failures.
- Place the Bowie-Dick test pack on the bottom shelf of the cart, over the drain, in an empty sterilizer.
- Read and record the physical monitors on the sterilizer for every load.

\*As defined by ISO 11140-1:2014

### STEAM

#### 3M™ Comply™ Bowie-Dick Plus Test Pack with Early Warning Test Sheet (ISO Type 2)

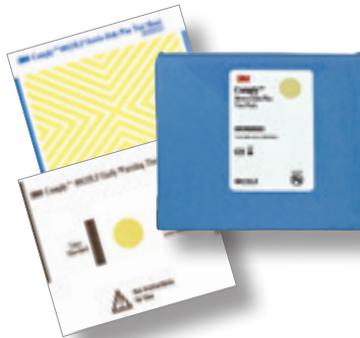
Cat. No.	Description	Packaging	Shipping
----------	-------------	-----------	----------

Designed for dynamic-air-removal sterilizers to test the efficacy of the vacuum system to remove air from the sterilizer chamber and detect leaks in the system.

- Make testing steam penetration and air removal, as well as detecting air leaks, more convenient and cost effective
- Indicator pattern is easy to read and interpret
- Features the Early Warning Test Sheet that identifies potential air leaks or vacuum pump failures before they appear on the Bowie-Dick Test Sheet
- Lead-free ink eliminates hazardous waste issues

00135LF**	Bowie-Dick Plus Test Pack with Early Warning Test Sheet	6 packs/box	5 boxes/case
-----------	---	-------------	--------------

\*\*Has equivalent performance to the Bowie-Dick towel pack cited in CSA Z314.3-14.



# Products for Equipment Monitoring

## STEAM

### 3M™ Comply™ Bowie-Dick Type Test Pack (ISO Type 2)

Designed for dynamic-air-removal sterilizers to test the efficacy of the vacuum system to remove air from the sterilizer chamber and detect leaks in the system.

- Make testing steam penetration and air removal, as well as detecting air leaks, more convenient and cost effective
- Indicator pattern is easy to read and interpret
- Lead-free ink eliminates hazardous waste issues



Cat. No.	Description	Packaging	Shipping
----------	-------------	-----------	----------

1233LF**	Bowie-Dick Type Test Pack	6 packs/ bag	5 bags/ case
----------	---------------------------	-----------------	-----------------

\*\*Has equivalent performance to the Bowie-Dick towel pack cited in CSA Z314.3-14.

## STEAM

### 3M™ Comply™ Bowie-Dick Test Sheet

These sheets allow you to build your own Bowie-Dick towel pack per CSA Z314.3-14.

- Indicator pattern is easy to read and interpret



Cat. No.	Description	Packaging	Shipping
----------	-------------	-----------	----------

00130LF	Bowie-Dick Internal Steam Indicator Sheet	50 sheets/ box	5 boxes/ case
---------	---	-------------------	------------------

## 3M Infection Prevention Solutions

# Products for Exposure Monitoring

Exposure Monitoring Products allow anyone to see at a glance whether packs have been exposed to the sterilization process. Usually consisting of tapes or labels, these ISO Type 1 Process Indicators\* undergo a colour change when exposed to the sterilant.

3M adhesives have been engineered to fit our customers' needs and are used in such diverse products as airplanes and cell phones, automobiles and medical dressings. Pressure-sensitive tapes were invented more than 80 years ago, and that history of adhesive "know-how" makes our indicator tapes excellent choices for reliable adhesion.

### Best Practices

- Always place an ISO Type 1 Process Indicator on the outside of every pack, wrapped tray, container or peel pouch, unless the internal CI is readily visible.

\*As defined by ISO 11140-1:2014

		STEAM		
3M™ Comply™ Lead Free Steam Indicator Tapes (ISO Type 1*)	Cat. No.	Description	Packaging	Shipping
<p>This exposure monitor not only seals packs securely but also provides at-a-glance visual assurance that the package has been exposed to the steam sterilization process.</p> <ul style="list-style-type: none"> <li>• Chemical indicator lines will turn dark when exposed to a steam sterilization process</li> <li>• Designed for use with reusable and disposable wrappers</li> <li>• Lead-free ink means no hazardous waste issues</li> <li>• Trusted, high quality adhesive with stretchable backing minimizes tape "pop off" during sterilization</li> <li>• Latex-free construction meets hospital guidelines</li> </ul>	1322-12MM	12 mm x 55 m (0.47" x 60 yds.)	-	42 rolls/case
	1322-18MM	18 mm x 55 m (0.70" x 60 yds.)	-	28 rolls/case
	1322-24MM	24 mm x 55 m (0.94" x 60 yds.)	-	20 rolls/case
	1322-48MM	48 mm x 55 m (1.89" x 60 yds.)	-	10 rolls/case



\*As defined by ISO 11140-1:2014

		STEAM		
3M™ Comply™ Lead Free Steam Indicator Tapes or Disposable Wraps (ISO Type 1*)	Cat. No.	Description	Packaging	Shipping
<p>This exposure monitor not only seals packs securely but also provides at-a-glance visual assurance that the package has been exposed to the steam sterilization process.</p> <ul style="list-style-type: none"> <li>• Chemical indicator lines will turn dark when exposed to a steam sterilization process</li> <li>• Features a stronger adhesive designed for disposable wrappers</li> <li>• Lead-free ink means no hazardous waste issues</li> <li>• Trusted, high quality adhesive with stretchable backing minimizes tape "pop off" during sterilization</li> <li>• Latex-free construction meets hospital guidelines</li> </ul>	1355-18MM	18 mm x 55 m (0.70" x 60 yds.)	-	28 rolls/case
	1355-24MM	24 mm x 55 m (0.94" x 60 yds.)	-	20 rolls/case



\*As defined by ISO 11140-1:2014

# Products for Exposure Monitoring

## ETHYLENE OXIDE

### 3M™ Comply™ Indicator Tapes for Ethylene Oxide (EO) Sterilization (ISO Type 1 CI\*\*)

A reliable ethylene oxide gas indicator tape that provides immediate identification of processed items and seals sterilization packs.

- Chemical indicator lines will turn red when exposed to an EO sterilization process

\*\*As defined by ISO 11140-1:2014



Cat. No.	Description	Packaging	Shipping
1224-0	1.25 cm x 55 m (1/2"x 60 yds.), Green	-	36 rolls/case
1224-1	2.5 cm x 55 m (1" x 60 yds.), Green	-	18 rolls/case
1224-6	1.9 cm x 55 m (3/4"x 60 yds.), Green	-	24 rolls/case

## VAPOURIZED HYDROGEN PEROXIDE

### 3M™ Comply™ Gas Plasma Indicator Tape

An external chemical indicator tape for use in STERRAD® Sterilization Processes (Models 100S, 100NX, NX and 100).

- Chemical indicator lines change from blue to pink when exposed to vapour hydrogen peroxide.



Cat. No.	Description	Packaging	Shipping
1228	1.9 cm x 55 m (3/4" x 60 yds.), White	-	24 rolls/case

## ACCESSORIES

### 3M™ Comply™ M52 Tape Dispenser with Tabber

The 3M™ Comply™ Indicator Tape Dispenser M52 with Tabber has a weighted base and can accommodate three rolls of 1/2-inch (1,27 cm), up to two rolls no wider than 1-inch (2,54 cm), or one 2-inch (5,08 cm) roll of indicator tape. A tabber can be attached to the tape dispenser, which automatically folds a 1/4-inch (0,635 cm) length of tape up to a 1-inch (2,54 cm) roll width.



Cat. No.	Description	Packaging	Shipping
M52	Heavy duty tape dispenser	-	1 each/case

## ACCESSORIES

### 3M™ C22 Heavy Duty Tape Dispenser

The C22 Heavy Duty Tape Dispenser is made of rugged, high-impact, durable plastic and can hold two rolls of 1-inch (2,54 cm) wide indicator tape.



Cat. No.	Description	Packaging	Shipping
C22	Heavy duty tape dispenser	-	2 each/case

## 3M Infection Prevention Solutions

# Products for Record Keeping

The final step in a complete and successful sterilization monitoring system is record keeping. A good system of records provides documentation that items have been processed, along with evidence of your monitoring results. 3M™ Record Keeping products provide a permanent record to help you meet your requirements.

### Best Practices

- Always record your monitoring results in a logical, easy-to-use system.
- Record keeping envelopes, forms, labels and electronic systems are common documentation tools.

### STEAM

#### 3M™ Comply™ (SteriGage™) Load Record Cards

A single-use device that indicates whether materials within a pack or load have been exposed to conditions necessary for sterilization. The steam sterilization record cards can be used in all steam sterilization processes.

- Combines a record card with a 3M™ Comply™ SteriGage™ Steam Chemical Integrator
- Large size makes finding the CI easy in large sets



Cat. No.	Description	Packaging	Shipping
4171MM	Load Record Card	100 each/box	1 box/case

### STEAM AND ETHYLENE OXIDE

#### 3M™ Comply™ Load Record Cards

A sterilizer load record card for use with steam and/or ethylene oxide (EO) gas sterilization processes (see catalog number descriptions); provides a permanent record of sterilizer use and work flow.



Cat. No.	Description	Packaging	Shipping
67200	Steam and EO Load Record Card, 7.6 cm x 12.8 cm (3" x 5")	250 each/box	4 boxes/case
67201	Steam and EO Load Record Card, 10.2 cm x 14 cm (4" x 5-1/2")	250 each/box	4 boxes/case

# Products for Record Keeping

## STEAM AND ETHYLENE

### 3M™ Comply™ Label Applicator

Durable, lightweight applicator is easy to use.

- Apply load labels to packages for fast and easy ID and recall
- Prints and applies labels directly where needed
- For use with 3M labels



Cat. No.	Description	Packaging	Shipping
1256B	Printing applicator	1 each/box	1 box/case

## STEAM AND ETHYLENE

### 3M™ Event Related Sterilization Record Labels—“Sterilized”

Use labels to record critical information about the sterilization process.



Cat. No.	Description	Packaging	Shipping
1269B	Blue labels 2.85 cm x 1.58 cm (1-1/8" x 5/8")	1125 labels/roll 12 rolls/box	1 box/case
1269BL	Black labels 2.85 cm x 1.58 cm (1-1/8" x 5/8")	1125 labels/roll 12 rolls/box	1 box/case
1269G	Green labels 2.85 cm x 1.58 cm (1-1/8" x 5/8")	1125 labels/roll 12 rolls/box	1 box/case
1269R	Red labels 2.85 cm x 1.58 cm (1-1/8" x 5/8")	1125 labels/roll 12 rolls/box	1 box/case

## STEAM AND ETHYLENE

### 3M™ Sterilization Record Labels—“Expires”

Use labels to record critical information about the sterilization process.



Cat. No.	Description	Packaging	Shipping
1257B	Blue labels 2.85 cm x 1.58 cm (1-1/8" x 5/8")	1125 labels/roll 12 rolls/box	1 box/case
1257BL	Black labels 2.85 cm x 1.58 cm (1-1/8" x 5/8")	1125 labels/roll 12 rolls/box	1 box/case
1257G	Green labels 2.85 cm x 1.58 cm (1-1/8" x 5/8")	1125 labels/roll 12 rolls/box	1 box/case
1257R	Red labels 2.85 cm x 1.58 cm (1-1/8" x 5/8")	1125 labels/roll 12 rolls/box	1 box/case

## STEAM AND ETHYLENE

### 3M™ Sterilization Record Labels—Blank

Use labels to record critical information about the sterilization process.

Cat. No.	Description	Packaging	Shipping
1257W	White labels 2.85 cm x 1.58 cm (1-1/8" x 5/8")	1125 labels/roll 12 rolls/box	1 box/case

STEAM, ETHYLENE OXIDE AND OTHER LOW TEMPERATURE METHODS

3M™ Comply™ Envelopes, Sheets and Binders

Maintain your sterilization process information and help reduce record keeping time to just minutes each day.



Cat. No.	Description	Packaging	Shipping
1254C	3M™ Comply™ Binder	50 envelopes & sheets	1 each/case
1254EC	3M™ Comply™ Bilingual Envelope Refill	50 envelopes	1 pkg/case
1254SC	3M™ Comply™ Record Sheets Refill Bilingual	50 sheets	1 pkg/case

STEAM, ETHYLENE OXIDE, OTHER LOW TEMPERATURE METHODS AND GLUTARALDEHYDE MONITORS

3M™ Attest™ Log Books

Preprinted log books put all the information you need to help you meet requirements right at your fingertips.



Cat. No.	Description	Packaging	Shipping
1266C	3M™ Attest™ Steam Binder with Insert	50 sheets	1 pkg/case
1266R	3M™ Attest™ Steam Inserts Only	50 sheets	1 pkg/case
1268C	3M™ Attest™ EO Binder with Inserts Bilingual	50 sheets	1 pkg/case
1268R	3M™ Attest™ EO Inserts Only	50 sheets	1 pkg/case
1280C	3M™ Attest™ Rapid Readout Log Book	50 sheets	1 pkg/case
1280R	3M™ Attest™ Rapid Readout Inserts	50 sheets	1 pkg/case
1283C	3M™ Attest™ Rapid Readout Log Book for Steam	50 sheets	1 pkg/case
1283R	3M™ Attest™ 50 Replacement Record Charts	50 sheets	1 pkg/case
1466	Log Book with 50 record charts, use with 3M™ Attest™ Super Rapid Readout Biological Indicators 1491 and 1492V for Steam Sterilization	1 each/pack	1 pkg/case



## 3M Infection Prevention Solutions

# Miscellaneous Monitoring

Chemical Indicator Labels, Instrument Protectors and Glutaraldehyde Monitors are all products that are designed to support the sterilization process from cleaning and disinfecting to package prepping.

### STEAM AND ETHYLENE OXIDE

#### 3M™ Comply™ Instrument Protectors

Protect sharp-pointed surgical instruments from damage and reduce the possibility of pouch puncture during sterilization and handling. Indicators on the protectors verify steam or EO gas processing.



#### Cat. No. Description

13911	5.1 cm x 12.8 cm (2" x 5")
13913	9.9 cm x 16.8 cm (3-1/2" x 6-5/8")
13915	14 cm x 24 cm (5-1/2" x 9-1/2")

#### Packaging

100 each/pack

100 each/pack

100 each/pack

#### Shipping

10 packs/case

10 packs/case

10 packs/case

### HIGH LEVEL DISINFECTION

#### 3M™ Comply™ Glutaraldehyde Monitors, 1.5%, 1.8%, 2.1%

Designed to test glutaraldehyde solutions with stated manufacturer's Minimum Effective Concentration (MEC) values. Indicates safe solutions when above 1.5%, 1.8% or 2.1% MECs.

- Each monitor consists of a plastic strip with a black-framed chemical reaction pad
- Pad changes from white to yellow when immersed in glutaraldehyde solutions with adequate concentration



#### Cat. No. Description

3983MM	1.5% MEC*
3987	1.8% MEC*
3989	2.1% MEC*

#### Packaging

60 monitors/bottle

60 monitors/bottle

60 monitors/bottle

#### Shipping

2 bottles/case

2 bottles/case

2 bottles/case

\*Test strips are brand specific. Please contact 3M for details.

## 3M Infection Prevention Solutions

# Products for Low Temperature Sterilization

Items that cannot be sterilized in steam sterilizers—such as flexible endoscopes—must be sterilized with other methods. Ethylene oxide and vapourized hydrogen peroxide are the most commonly used sterilants for achieving terminal sterilization for these heat- and moisture-sensitive instruments.

3M has a wide range of products for monitoring the results of every step of the low temperature sterilization process, from exposure monitoring to record keeping. And, 3M offers 3M™ Steri-Vac™ Sterilizer/Aerators that use 100% ethylene oxide (EO), the “gold standard” for low temperature sterilization for over 50 years. In fact, over half of all heat- or moisture-sensitive devices (including sterile single-use devices made by manufacturers) are sterilized with ethylene oxide.<sup>1</sup>

Steri-Vac Sterilizers can help meet the challenges of modern sterile processing departments and provide excellent value through high efficacy, excellent materials compatibility, low cost-in-use, and a sterilant with an advanced ability to penetrate tight spaces and complex instrument configurations.

### Best Practices

- Refer to CSA Z314.23: Chemical sterilization of reusable medical devices in health care facilities.
- Refer to CSA Z314.9: Installation, ventilation, and safe use of ethylene oxide sterilizers in health care facilities.
- Refer to CAN/CSA/ISO Z11135:15 Sterilization of health-care products - Ethylene oxide - Requirements for the development, validation and routine control of a sterilization process for medical devices.
- Consider the value of critical instrumentation, instrument repair intervals when using different sterilization methods, and demonstrated use frequency to help determine the optimal combination of low and high temperature sterilizing technologies for your health care facility’s overall equipment strategy.
- Always consult the medical device manufacturer for their written reprocessing guidelines, including recommended sterilization compatibility and parameters.

<sup>1</sup>Global Industry Analysts, Inc. Sterilization Equipment and Supplies – A Global Strategic Business Report MCP3362 Oct. 2011.

# Ethylene Oxide Sterilization – Rapid Readout Monitoring

## ETHYLENE OXIDE - 4-hour

### 3M™ Attest™ Rapid Readout Biological Test Packs for Ethylene Oxide (EO) Sterilization

Each test pack contains a 3M™ Attest™ Rapid Readout Biological Indicator 1294 for Ethylene Oxide.

- Results in 4 hours
- This convenient disposable pack is designed to be as resistant as the routine EO biological indicator test pack recommended by CSA



Cat. No.	Description	Packaging	Shipping
1298*	EO Test Pack (25 controls/box)	25 packs/box	2 boxes/case
1298F*	EO Test Pack (5 controls/box)	25 packs/box	2 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390G.

## ETHYLENE OXIDE - 4-hour

### 3M™ Attest™ Rapid Readout Biological Indicator for Ethylene Oxide (EO) Sterilization

- Results in 4 hours



Cat. No.	Description	Packaging	Shipping
1294*	EO Biological Indicator (Green cap)	50 each/box	4 boxes/case

\*Must be used in conjunction with 3M™ Attest™ Auto-reader 390G.

## ETHYLENE OXIDE - 4-hour

### 3M™ Attest™ Auto-reader 390G for Ethylene Oxide (EO) Sterilization

- For use with 3M™ Attest™ Rapid Readout Biological Indicator 1294 for Ethylene Oxide
- Backlit LCD panel for fast, easy reading of data, including at-a-glance minutes remaining in incubation
- Easy custom configuration buttons on top of the unit
- Remote viewing of BI results from your Smart Phone or PC
- Option to save and/or print incubation records from Web App
- Ability to connect to select instrument-tracking software systems



Cat. No.	Description	Packaging	Shipping
390G	Auto-reader for use with 3M™ Attest™ Rapid Readout Biological Indicator 1294 for EO, 37°C (98.6°F)	1 unit/box	1 box/case

# Ethylene Oxide Sterilization – Standard Readout Monitoring

## ETHYLENE OXIDE - 48-hour

### 3M™ Attest™ Biological Indicator Test Packs for Ethylene Oxide (EO) Sterilization

Each test pack contains a 3M™ Attest™ Biological Indicator 1264.

- Biological indicator vials are easy to use and interpret with visual colour readout in 48 hours
- This convenient disposable challenge pack presents a challenge to the sterilization process equivalent to the user-assembled BI challenge pack (towel PCD) recommended to CSA



Cat. No.	Description	Packaging	Shipping
1278**	EO Test Pack (25 controls/box)	25 packs/box	2 boxes/case
1278F**	EO Test Pack (5 controls/box)	25 packs/box	2 boxes/case

\*\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 127

## ETHYLENE OXIDE - 48-hour

### 3M™ Attest™ Biological Indicators for Ethylene Oxide (EO) Sterilization

- Biological indicator vials are easy to use and interpret with visual colour readout in 48 hours



Cat. No.	Description	Packaging	Shipping
1264**	EO Biological Indicator (Green cap)	100 each/box	4 boxes/case
1264P**	EO Biological Indicator (Green cap)	25 each/box	4 boxes/case

\*\*Must be used in conjunction with 3M™ Attest™ Biological Indicator Incubator 127

## ETHYLENE OXIDE

### 3M™ Attest™ Biological Indicator Incubators for Ethylene Oxide (EO) Sterilization

Provide optimal conditions for accurate readout of 3M™ Attest™ Biological Indicators.

- 28-vial capacity
- Dry-block design pre-set to proper incubation temperature



Cat. No.	Description	Packaging	Shipping
127	28-vial (2-tier), 37°C (EO), for use with EO Biological Indicator 1264	1 each/box	1 box/case

# Products for Low Temperature Sterilization

## ETHYLENE OXIDE

### 3M™ Comply™ Ethylene Oxide (EO) Chemical Indicator Strip

Long strip of chemical indicator ink printed on perforated-style strip.

- Allows full- or half-length use for different pack sizes
- For use in sterilization cycles with 100% EO and EO/HCFC gas mixtures.
- Indicator changes from red to green when exposed to ethylene oxide sterilization conditions



Cat. No.	Description	Packaging	Shipping
1251	EO Chemical Indicator Strip, 1.5 cm x 20 cm (5/8" x 8")	240 each/box	1 box/case

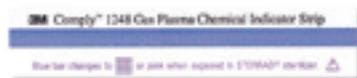


## VAPOURIZED HYDROGEN PEROXIDE

### 3M™ Comply™ Gas Plasma Chemical Indicator Strip

Internal pack chemical indicator for use in STERRAD® sterilization processes (Models 100S, 100NX, NX and 100).

- Indicator turns from blue to pink when exposed to a vapourized hydrogen peroxide sterilization process
- Indicator colour does not fade when exposed to light



Cat. No.	Description	Packaging	Shipping
1248	2 cm x 10 cm (13/16" x 4")	250 each/box	4 boxes/case

## ETHYLENE OXIDE

### 3M™ Comply™ Indicator Tapes for Ethylene Oxide (EO) Sterilization (ISO Type 1)\*

External indicator tape for use in ethylene oxide sterilization processes.

- Provides immediate identification of processed items and seals packs
- Chemical indicator lines turn from yellow to red when exposed to an EO sterilization process



Cat. No.	Description	Packaging	Shipping
1224-0	1.25 cm x 55 m (1/2" x 60 yds.), Green	—	36 rolls/case
1224-1	2.5 cm x 55 m (1" x 60 yds.), Green	—	18 rolls/case
1224-6	1.9 cm x 55 m (3/4" x 60 yds.), Green	—	24 rolls/case

\*As defined by ISO 11140-1:2014

## VAPOURIZED HYDROGEN PEROXIDE

### 3M™ Comply™ Gas Plasma Indicator Tape

External indicator tape for use in STERRAD® sterilization processes (Models 100S, 100NX, NX and 100).

- Provides immediate identification of processed items and seals packs
- Chemical indicator lines turn from blue to pink when exposed to a vapourized hydrogen peroxide sterilization process



Cat. No.	Description	Packaging	Shipping
1228	1.9 cm x 55 m (3/4" x 60 yds.), White	—	24 rolls/case

ACCESSORIES

3M™ Tape Dispensers

The 3M™ Comply™ Indicator Tape Dispenser M52 with Tabber has a weighted base and can accommodate three rolls of 1/2-inch (1.25 cm), up to two rolls no wider than 1-inch (2.5 cm), or one 2-inch (5 cm) roll of indicator tape. A tabber can be attached to the tape dispenser, which automatically folds a 1/4-inch (0.64 cm) length of tape up to a 1-inch (2.5 cm) roll width.

The Heavy Duty Tape Dispenser C22 is made of rugged, high impact, durable plastic and can hold two rolls of 1-inch (2.5 cm) wide indicator tape.



Cat. No.	Description	Packaging	Shipping
M52	Heavy Duty Tape Dispenser	—	1 each/case
C22	Heavy Duty Tape Dispenser	—	2 each/case

ETHYLENE OXIDE

3M™ Steri-Gas™ EO Gas Cartridges

Easy-to-use, single-dose cartridges are engineered for safety.

- Precise usage of EO with single-dose cartridges means no waste of sterilant
- No CFCs or HCFCs (100% EO)
- For use with 3M™ Steri-Vac™ Sterilizers



Cat. No.	Description	Packaging	Shipping
4-100	100 gm (3.5 oz.) Cartridge for Models 4XL, 5XL, and 5GS.	12 each/box	4 boxes/case
8-170	170 gram (6 oz.) Cartridge for Model 8XL and 8GS.	12 each/box	4 boxes/case

ETHYLENE OXIDE

3M™ Steri-Vac™ Printer Papers

Designed to work with 3M™ Steri-Vac™ Models 4XL, 5XL, 8XL, 5GS, and 8GS Sterilization Systems.



Cat. No.	Description	Packaging	Shipping
1216A	Printer Paper, 60 mm (2-3/8") wide for 4XL and 5XL (with serial number below 720000)	—	2 rolls/case
1217	Printer Paper, 79 mm (3-1/8") wide for 8XL, 5XL (with serial number above 720000), 5GS, 8GS.	—	2 rolls/case

# Products for Low Temperature Sterilization

## STEAM AND ETHYLENE OXIDE

### 3M™ Comply™ Instrument Protectors

Protect sharp-pointed surgical instruments from damage and reduce possibility of pouch puncture during sterilization and handling.

- Indicators on the protectors verify steam or EO gas processing
- For use inside single peel pouches



Cat. No.	Description	Packaging	Shipping
13911	5.1 cm x 12.8 cm (2" x 5")	100/pack	10 packs/case
13913	9.9 cm x 16.8 cm (3-1/2" x 6-5/8")	100/pack	10 packs/case
13915	14 cm x 24 cm (5-1/2" x 9-1/2")	100/pack	10 packs/case

## STEAM, ETHYLENE OXIDE, OTHER LOW TEMPERATURE METHODS AND GLUTARALDEHYDE MONITORS

### 3M™ Attest™ Log Books, Sheets and Binders

Preprinted log books put monitoring information at your fingertips.



Cat. No.	Description	Packaging	Shipping
1268C	3M™ Attest™ EO Binder with Inserts Bilingual	50 sheets	1 pkg/case
1268R	3M™ Attest™ EO Inserts Only	50 sheets	1 pkg/case

## STEAM AND ETHYLENE OXIDE

### 3M™ Comply™ Load Record Cards

Provide a permanent record of sterilizer use and work flow.



Cat. No.	Description	Packaging	Shipping
67200	Steam and EO Load Record Card, 7.6 cm x 12.8 cm (3" x 5")	250 each/box	4 boxes/case
67201	Steam and EO Load Record Card, 10.2 cm x 14 cm (4" x 5-1/2")	250 each/box	4 boxes/case

**3M™ Comply™ Envelopes, Sheets and Binders**

Build a flexible record keeping system based on the needs of your department.



Cat. No.	Description	Packaging	Shipping
1254C	3M™ Comply™ Binder	50 envelopes & sheets	1 each/case
1254EC	3M™ Comply™ Bilingual Envelope Refill	50 envelopes	1 pkg/case
1254SC	3M™ Comply™ Record Sheets Refill Bilingual	50 sheets	1 pkg/case

# Products for Low Temperature Sterilization

## HARDWARE

### 3M™ Steri-Vac™ Sterilizer/Aerator GS Series

100% ethylene oxide (EO) gas sterilizer/aerator with two pre-programmed cycles: Warm Cycle (55°C) and Cool Cycle (38°C).

- Touch screen on the front panel displays the key information for the operator
- Designed for safety, single-dose 100% EO cartridge is punctured inside the chamber only when proper negative pressure conditions are achieved
- Cartridge barcode scanner allows the sterilizer to register the cartridge catalogue number, EO volume, lot number and expiration date, streamlining your record keeping.
- Built-in aeration cycle allows a single chamber process
- Software controlled door allows operator to release door using the touch screen pane, only when it is safe to do so.
- Aeration begins automatically after the sterilization cycle is completed. The sterilization/aeration process can be accomplished in one chamber without moving the load.
- Sterilizer will retain sterilization cycle details for the last 100 cycles, and reports can be downloaded to a USB drive.



Cat. No.	Description	Shipping
GS5	GS5-1D, Single Door GS5-2D, Double Door Chamber: 4.8 cu. ft. (0.135 cu. m.)	1 unit/case
GS8	GS8-1D, Single Door GS8-2D, Double Door Chamber: 7.9 cu. ft. (0.224 cu. m.)	1 unit/case

## HARDWARE

### 3M™ Ethylene Oxide (EO) Abator

Abator removes EO gas exhausted from 3M™ Steri-Vac™ Sterilizers/Aerators, converting it into CO<sub>2</sub> and water vapour.

- Removal efficiency is 99.9%+ at normal operating temperatures and concentrations (EO concentrations greater than 100 ppm)
- The unit comes complete, ready for installation and connection to the building utility service lines and sterilizer exhaust, then works automatically with sterilization system
- Each EO Abator can be used with up to two 3M™ Steri-Vac Sterilizer/Aerators Model 5XL or 8XL



Cat. No.	Description	Shipping
50	81 cm (H) x 92 cm (W) x 107 cm (L) 32" (H) x 36"(W) x 42" (L)	1 unit/case



**3M**  
Steri-Vac GS8X

WARNING: Do not touch the hot surfaces of the sterilizer. The sterilizer can become extremely hot during operation. To avoid injury, do not touch the sterilizer until it has cooled down. See the user manual for more information.

WARNING: Do not touch the hot surfaces of the sterilizer. The sterilizer can become extremely hot during operation. To avoid injury, do not touch the sterilizer until it has cooled down. See the user manual for more information.

3M  
Steri-Vac GS8X  
User Manual  
Read the user manual before operating the sterilizer. The user manual contains important safety information and instructions for use. See the user manual for more information.



**Your Partner  
in Sterilization  
Assurance.**

# Canadian Reprocessing Resources

## *Who to turn to for standards and recommended practices for instrument reprocessing?*

3M Infection Prevention actively coordinates and collaborates with industry associations in their ongoing efforts to improve the science and professionalism of instrument reprocessing. We encourage you to further investigate the standards they have developed.

### **CSA Group – [www.csagroup.org](http://www.csagroup.org)**

The Canadian Standards Association (CSA) is a Canadian international organization that develops consensus-based standards across many industries, and is also heavily involved in product testing and certification. The standards related to medical device reprocessing are written by volunteer members from healthcare, industry, government, and academia who work together to reach a consensus on recommended practices for medical devices and technology. The CSA publishes several documents on reprocessing, including the CSA Z314.3 Effective sterilization in health care settings by the steam process.

### **ORNAC – [www.ornac.ca](http://www.ornac.ca)**

The Operating Room Nurses Association of Canada (ORNAC) is an organization that provides OR nurses with education and standards of practice. ORNAC is associated with the Canadian Nursing Association and regularly publishes a standard that is an excellent reference for best practice in the OR.

### **Provincial Guidelines and Recommendations**

Many of the provinces in Canada have published their own guidelines for reprocessing that generally align with the related CSA standards. Some of the guidelines are available free of charge and may have more informative text to explain the rationale behind recommended practices. Provincial documents can be used in conjunction with the more detailed and widely-used CSA standards on reprocessing.



Available in Canada from:  
**3M Infection Prevention Division**  
**3M Canada Company**  
P.O. Box 5757  
London, Ontario N6A 4T1  
1 800 364-3577  
[www.3M.ca](http://www.3M.ca)

**3M Health Care**  
2510 Conway Avenue  
St. Paul, MN 55144  
USA

Please recycle. Printed in Canada.  
© 2016, 3M. All rights reserved.  
3M, 3M Science. Applied to Life., Attest, Comply, Steri-Gas,  
Steri-Lok and Steri-Vac are trademarks of 3M. Used under  
license in Canada. STERRAD is a registered trademark of  
Advanced Sterilization Products, Division of Ethicon Inc., a  
Johnson & Johnson Company. 151003855 E BA-15-20737