

VERIFY[®] STEAM INTEGRATING INDICATOR PCC064, PCC065 AND PCC066 TECHNICAL DATA

GENERAL DESCRIPTION

The VERIFY[STEAM]Integrating Indicator is a type 5 integrating indicator as defined by the Association for the American National Standards Institute/Association for the Advancement of Medical Instrumentation/International Organization for Standardization (ANSI/AAMI/ISO) in ANSI/AAMI/ISO 11140-1 standard for chemical indicators. The indicator requires all critical parameters necessary for steam sterilization (time, temperature and saturated steam) and has been correlated to biological indicator death.

APPLICATION

The VERIFY STEAM Integrating Indicator is designed to monitor 250°F/121°C gravity, 270°F/132°C gravity and 275°F/135°C steam sterilization cycles. See **Table 1** for a complete list of validated steam sterilization cycles. Integrator strips are placed into each pack to be steam sterilized in the area deemed to be the most resistant to steam penetration. During the steam sterilization process, steam penetrates the indicator strip causing the steam sensitive dark colored chemical to melt and migrate across the window. When the dark bar reaches the accept window the conditions for sterilization were met. If the dark bar does not appear in the accept window, the conditions for sterilization were not met.

Sterilization Cycle Type	Sterilization Temperature and Time
Gravity	250°F/121°C for 30 minutes 270°F/132°C for 15 minutes 275°F/135°C for 10 minutes
Dynamic Air Removal (prevacuum and steam-flush pressure-pulse)	270°F/132°C for 4 minutes 275°F/135°C 3 minutes
Immediate Use Steam Sterilization	270°F/132°C 3 and 10 minute gravity 270°F/132°C 4 minute dynamic air removal 275°F/135°C 3 and 10 minute gravity 275°F/135°C 3 minute dynamic air removal

Table 1: List of Validated Steam Sterilization Cycles

FEATURES

Type 5 integrating indicator (ANSI/AAMI/ISO 11140-1:2014)

Correlated to the performance of a biological indicator as specified in ANSI/AAMI/ISO 11138

Dark color bar migrates along a paper wick to reach the ACCEPT area

Made in the absence of lead-based or heavy metal-based indicator ink and is latex free

Stable results

Indicator length of 4"

BENEFITS

Internationally recognized performance
May be utilized across several sterilization cycles
Endpoint result is clear and unambiguous
Eliminates exposure to lead, other heavy metals and latex
The indicator may be kept as part of your records
Increases ease of locating indicators in pouches and instrument sets

TECHNICAL PROPERTIES

Size: Approximately 4 in x 3/4 in / 10 cm x 2 cm

Components:

Aluminum Foil Steam sensitive chemical containing color dye Filter paper Label face stock laminated with cast polypropylene film

Shelf life: Five years from the date of manufacture, when stored at recommended conditions.

Test data demonstrates that the integrating indicator meets the requirements for a Type 5 integrating indicator as defined in ANSI/AAMI/ISO 11140-1:2014. **Tables 2 through 4** show results for the ANSI/AAMI/ISO 11140 Type 5 integrating indicator Pass and Fail tests for the product's stated values.

Table 5 indicates the temperature coefficient for each lot tested.

Lot	Pass Test 121°C for 23.00 Minutes # Accept/# Tested	Fail Test 120°C for 19.55 Minutes # Accept/# Tested	
Lot 1	9/9	0/9	
Lot 2	9/9	0/9	
Lot 3	9/9	0/9	

Table 2: Pass/Fail Testing From three (3) lots of VERIFY STEAM Integrating Indicators With a Stated Value of 250°F/121°C and 23.00 Minutes

Table 3: Pass/Fail Testing From four (4) Lots of VERIFY STEAM Integrating Indicators With a Stated Value of 270°F / 132°C and 2.00 Minutes

Lot	Pass Test 132°C for 2.00 Minutes # Accept/# Tested	Fail Test 131°C for 1.70 Minutes # Accept/# Tested	
Lot 1	9/9	0/9	
Lot 2	9/9	0/9	
Lot 3	9/9	0/9	

Table 4: Pass/Fail Testing from four (4) lots of VERIFY STEAM Integrating Indicators with a Stated Value of 275°F / 135°C and 1.2 Minutes

Lot	Pass Test 135°C for 1.20 minutes # Accept/# Tested	Fail Test 134°C for 1.02 minutes # Accept/# Tested
Lot 1	9/9	0/9
Lot 2	9/9	0/9
Lot 3	9/9	0/9

Lot	Temperature Coefficient	Regression Coefficient
Lot 1	11.1	0.9985
Lot 2	11.1	0.9985
Lot 3	11.1	0.9985

Table 5: Calculated Correlation Coefficient for three (3) Lots of VERIFY STEAM Integrating Indicators

DIRECTION FOR USE

Place a VERIFY STEAM Integrating Indicator into each pack to be sterilized. Position the integrator in that area judged to be the most resistant to steam penetration. Upon completion of the sterilization cycle, release the sterilized items using departmental procedures.

When the pack is to be used, open the pack and aseptically remove the indicator. Examine the indicator to determine that the dark bar has entered the ACCEPT window, assuring the sterilization conditions have been met.

If the dark bar has not entered the Accept window, it is an indication that the sterilizing conditions have not been met. The entire pack must be reprocessed per standard hospital procedures for reprocessing packs.

After opening the indicator's foil package, utilize zippered seal mechanism to reseal pouch. Always store unused integrators in the foil pouch.

STORAGE CONDITIONS

VERIFY STEAM Integrating Indicators should be stored at room temperature.

SERVICE

Sales

Service is one of the most important ways to verify consistent quality of the facility's performance and operation. A tailored service program by STERIS provides effective, trouble-free operations.

Technical

STERIS is pleased to provide a completely staffed and equipped technical service laboratory capable of performing needed tests and providing both telephone and on-site assistance when needed. More details on how this service can benefit a facility's particular situation can be provided upon request.

ORDERING INFORMATION

Description	Quantity	Reorder Number
VERIFY STEAM Integrating Indicator	250 strips per pack	PCC064
VERIFY STEAM Integrating Indicator	8 packs per box/250 strips per pag	ck PCC064B
VERIFY STEAM Integrating Indicator	1000 strips per pack	PCC065
VERIFY STEAM Integrating Indicator	2 packs per box/1000 strips per pa	ack PCC065B
VERIFY STEAM Integrating Indicator	200 strips per pack	PCC066

For further information, please contact:



STERIS Corporation 5960 Heisley Road Mentor, OH 44060-1834 • USA 440-354-2600 • 800-548-4873 www.steris.com