

PRODUCT SPECIFICATION

Product Name: 3MTM Freeze WatchTM 9805FW

Date June 15th 2005 Issue: Version 2

Supersedes: June 30th 2003

Reason for reissue Extend shelf- life from 4 years to 5

years

Table of Contents

1. General Description and Use

- 2. General Requirements
- 3. Sampling, Inspection and Product Characteristics
- 4. Quality Testing and Reporting
- 5. Transportation and Storage Recommendations
- 6. Packaging and Labeling
- 7. Returned Goods

1. General Description & Use:

3M[™] Freeze Watch[™] Indicators are ideal for monitoring pharmaceutical products –including vaccines, medicines and chemicals -that run the risk of being damaged when exposed to freezing temperatures during shipment and storage. The patented design of Freeze Watch indicators consists of a highly sensitive indicating liquid inside a specially designed ampule. When exposed to freezing temperatures, the ampule fractures, releasing a liquid. The liquid irreversibly stains a paper behind the ampule, indicating that product has been exposed to unacceptable temperatures so product quality testing should be performed. Freeze Watch indicators are available at two temperature levels, -4 °C (25 °F) and 0 °C (32 °F), to accommodate differing product sensitivities. Placed directly on secondary shipper boxes of temperature-sensitive products during shipment and storage, the indicators provide a reliable measure of temperature exposure.

The 3M brand Freeze WatchTM Indicator is a rectangular tag containing an indicator paper, glass ampoule enclosed within a PVC blister cover and heavy paper back card. Overall size is 2½" x 1½" x ½". The heart of the indicator is a liquid mixture that when exposed to freezing temperatures expands to break the glass ampoule. The liquid once released stains the paper with a permanent dye. A pressure-sensitive adhesive on the underside of the indicator allows convenient attachment to most clean, dry surfaces.

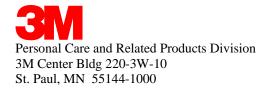
9805FW has a nominal trigger point of 0 $^{\circ}$ C (32 $^{\circ}$ F)

2. General Requirements:

In accordance with OSHA's Hazardous Communications' Regulation, this material is not currently defined as a hazardous substance. Any change in this status shall be promptly documented and communicated by the supplier.

3M will verify that product quality is consistent and meets the finished product specifications outlined therein.

3M will minimize product contamination. Storage facilities will be clean and orderly.



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3. Sampling, Inspection, and Product Characteristics:

3M will assure that samples selected are representative of the lot. A lot is considered to be from one days production using same raw materials. The lot number of a production batch shall be the month and year of product expiration in combination with a two letter code representing batch sequence for the month of production starting with AA, AB, AC, ...

Quality Characteristics:

Property		AQL	
For 9805FW			
One hour at -3°C +/- 0.3°C	All to break	1.5%	TM 3955
One hour at +1.5 °C +/- 0.3 °C	No break	1.5%	TM 3955
Air Bubbles	<3 mm	2.5%	
No Indicator Paper	No defect		
	allowed		

4. Quality Testing and Reporting:

If required, a C of C or other specific quality information can be provided. Arrangements can be made through your 3M Sales Representative.

5. Storage Recommendations and Shelf life:

Storage for the Freeze Watch product must be between 5C and 32C to prevent premature indication. We recommend storage in a controlled environment 20% to 60 % relative humidity. If stored at these conditions the shelf life is 5 years from month of manufacture.

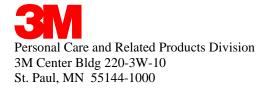
6. Packaging and Labeling:

Product is supplied in boxes of 400 tags each, surrounded with gel packs and expanded polystyrene insulation..

7. Returned Goods:

The customer should contact their 3M Sales Representative immediately. The customer should set aside tags of questionable quality and identify it with the 3M lot number, date of inspection, invoice number and an explanation on why the material is questionable.

It is the responsibility of the customer to maintain the cleanliness and condition of the set aside material as it was at the time of rejection and package for return to the vendor is a manner that will preserve this condition. Maintaining these conditions will assist in determining the proper corrective action.



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Important Legal Information:

Product and Safety Information: User is solely responsible for determining the suitability of 3M samples and products for the intended use including any necessary safety or toxicity assessment. 3M provides Material Safety Data Sheets with samples and will provide results of toxicity testing upon request. In every case before using any product in full scale production users should make their own tests to determine to their own satisfaction whether the product is of acceptable quality and is suitable for their particular purposes under their own operating conditions.

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