



Personal Care and Related Products Division
3M Center Bldg 220-3W-10
St. Paul, MN 55144-1000

PRODUCT SPECIFICATION

Product Name:	3M™ Freeze Watch™ 9805FW	Issue: Version 2
Date	June 15 th 2005	
Supersedes:	June 30 th 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 Watch™ 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 2¼" x 1½" x ¼". 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 °C (32 °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.



Personal Care and Related Products Division
 3M Center Bldg 220-3W-10
 St. Paul, MN 55144-1000

PRODUCT SPECIFICATION

Product Name:	3M™ Freeze Watch™ 9805FW	Issue: Version 2
Date	June 15 th 2005	
Supersedes:	June 30 th 2003	
Reason for reissue	Extend shelf- life from 4 years to 5 years	

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.



Personal Care and Related Products Division
3M Center Bldg 220-3W-10
St. Paul, MN 55144-1000

PRODUCT SPECIFICATION

Product Name:	3M™ Freeze Watch™ 9805FW	Issue: Version 2
Date	June 15 th 2005	
Supersedes:	June 30 th 2003	
Reason for reissue	Extend shelf- life from 4 years to 5 years	

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.

Notice: Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendations to practice any invention covered by any patent, without authority from the owners of this patent.

Warranty Information

All statements, technical information and recommendations herein are based on tests 3M believes to be reliable, but the accuracy or completeness thereof is not guaranteed. 3M WARRANTS ONLY THAT PRODUCTS WILL MEET 3M's SPECIFICATIONS AT THE TIME OF SHIPMENT TO THE CUSTOMER. 3M does not offer any other warranty and does not warrant the performance, safety or such other characteristics of Products in combination with other materials. 3M specifically DOES NOT warrant Products for an intended or unintended uses (whether or not foreseeable): for compatibility or suitability with other components or compatibility with any methods of manufacture or conversion. THE FOREGOING WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND FREEDOM FROM NON-INFRINGEMENT.

Limitation of remedies: If products are proven not to meet 3M's specifications, the sole and exclusive remedy available and 3M's only obligation shall be, at 3M's option, to replace such quantity of Products which are proven out of specification or to refund the purchase price paid for Products.

Limitations of Liabilities: THE REMEDIES PROVIDED HEREIN ARE EXCLUSIVE REMEDIES AGAINST 3M FOR ANY ALLEGED OR ACTUAL NONCONFORMANCE TO SPECIFICATION OR DEFECT OR OTHER FAILURE IN PRODUCTS OR FOR 3M's PERFORMANCE OF ITS SUPPLY OBLIGATIONS. UNDER NO CIRCUMSTANCES IS 3M LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL SPECIAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS) IN ANY WAY RELATED TO THE PRODUCT OR TO PERFORMANCE OF THIS AGREEMENT UNDER ANY THEORY OF LAW INCLUDING, BUT NOT LIMITED TO, NEGLIGENCE AND STRICT LIABILITY.