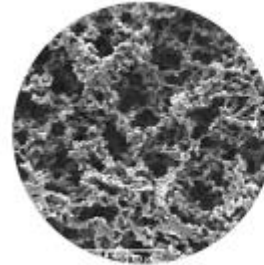


<b>Product PN</b>	1215257, 1215263, 1215019, 1214969, 1215281, 1215207, 1214977, 1215305, 1215316, 1215323, 1225781, 3053082	<b>Mod. 984</b>
<b>Description</b>	0.45 µm Nitrocellulose (NC) Filtration Membrane in Discs and Sheets	<b>Rev. 01</b>

**0.45 µm Nitrocellulose (NC)  
Filtration Membrane in Discs and  
Sheets**



<b>PRODUCT DESCRIPTION</b>	0.45 µm Nitrocellulose (NC) Filtration membrane packaged in sheets and discs					
	<b>Part Number</b>	<b>Color</b>	<b>Gridded</b>	<b>Geometry</b>	<b>Dimensions</b>	<b>Packaging</b>
	1215257	White	No	Disc	13mm	100/pk
	1215263	White	No	Disc	25mm	100/Pk.
	1215019	Black	No	Disc	25mm	100/Pk.
	1214969	Black	Yes, white grid	Disc	25mm	100/Pk.
	1215281	White	No	Disc	47mm	100/Pk.
	1215207	White	Yes, black grid	Disc	47mm	100/pk
	1214977	Black	Yes, white grid	Disc	47mm	100/pk
	1215305	White	No	Disc	90mm	25/pk
	1215316	White	No	Disc	142mm	25/Pk
	1215323	White	No	Disc	293mm	25/Pk.
	1225781	White	No	Sheet	20x20cm	5/pk
3053082	Black	No	Sheet	20x 20cm	5/pk	
<b>MANUFACTURE NAME</b>	GVS North America, Inc. 63 Community Drive Sanford, ME 04073 Phone: +1.866.736.1250 Email: <a href="mailto:CustomerCareGVSLs@gvs.com">CustomerCareGVSLs@gvs.com</a> Website: <a href="http://www.gvs.com">www.gvs.com</a>					
<b>INTENDED USE/ APPLICATION</b>	These products are filtration membranes, often used for air monitoring, bioassays, aqueous filtration, gravimetric analysis with ashing technique, particulate analysis, and cytology,					
<b>MATERIALS</b>	Membrane: Nitrocellulose (NC) Filtration membrane  Regulatory Documentation Required: <ul style="list-style-type: none"> <li><input type="checkbox"/> Biocompatibility according ISO 10993-1</li> <li><input type="checkbox"/> IMDS</li> <li><input type="checkbox"/> Rohs, directive 2002/95/CE</li> <li><input checked="" type="checkbox"/> BSE/TSE, directive 2003/32/CE</li> <li><input type="checkbox"/> DEHP plasticizer and latex free</li> <li><input type="checkbox"/> Aging</li> <li><input checked="" type="checkbox"/> Reach 1907/2006/CE (hazardous substances regulation)</li> </ul>					



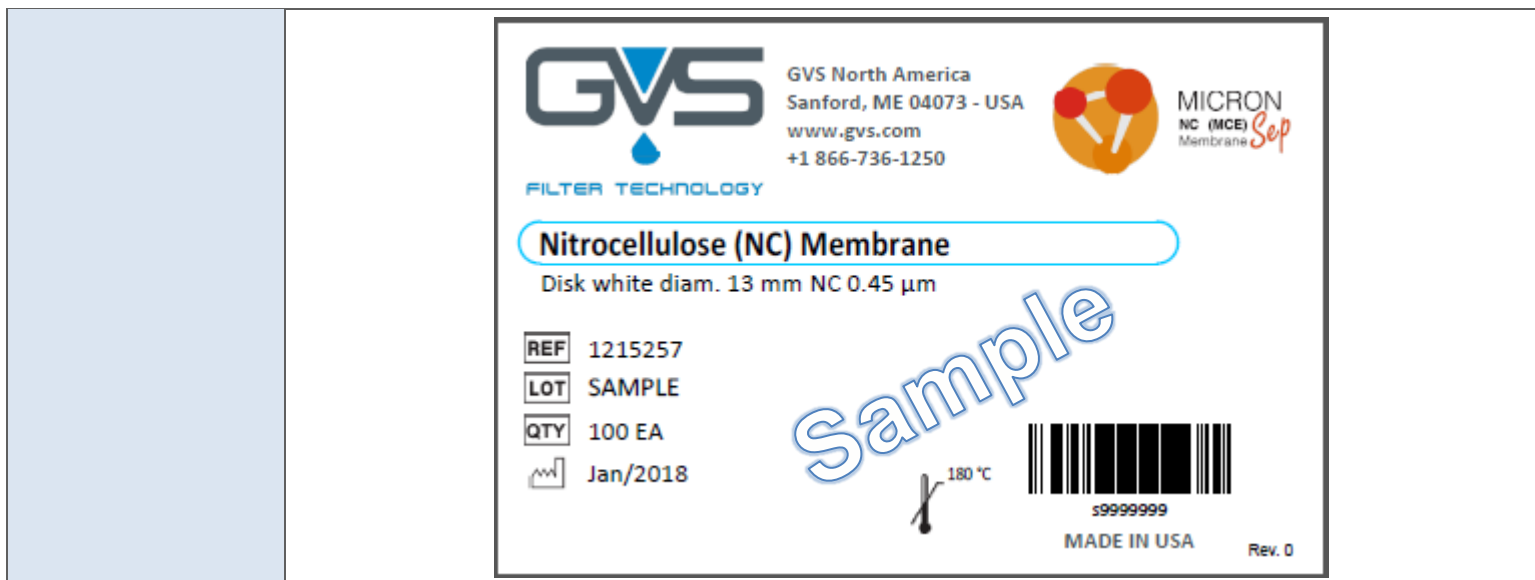
# PRODUCT SPECIFICATION

<b>Product PN</b>	1215257, 1215263, 1215019, 1214969, 1215281, 1215207, 1214977, 1215305, 1215316, 1215323, 1225781, 3053082	<b>Mod. 984</b>
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	<input type="checkbox"/> Dir. 67/548/CE and Reg. 1272/2008/CE (medical sector dangerous substances) <input checked="" type="checkbox"/> Conflict minerals <input checked="" type="checkbox"/> USP Class VI												
<b>PRODUCT CHARACTERISTICS</b>	<ul style="list-style-type: none"> <li>• White or black membrane configured in discs or sheets</li> <li>• High flow rates, fast filtration rates</li> <li>• Uniform pore structure; consistent flow and diffusion rates</li> <li>• Hydrophilic</li> <li>• Max. operating temperature: 356°F (180°C)</li> </ul>												
<b>WARNINGS</b>	Nitrocellulose membrane is highly flammable. Keep away from heat and open flame. Flash point is approximately 200°C.												
<b>PRODUCT SHELF LIFE</b>	5 years in normal storage conditions: Store the product at room temperature away from chemical vapors, in a dry place, free of dust and not exposed to direct sunlight.												
<b>STERILIZATION</b>	<p>This is a non-sterile product, compatible with these sterilization techniques*:</p> <input checked="" type="checkbox"/> EtO <input checked="" type="checkbox"/> Gamma (25 - 40 kGy) <input checked="" type="checkbox"/> Autoclave (121°C) <input checked="" type="checkbox"/> eBeam												
	<i>*user has the responsibility to validate their process</i>												
<b>PACKAGING AND LABELING</b>	<ul style="list-style-type: none"> <li>• Primary packaging:           <table border="1" data-bbox="395 1279 1506 1496"> <thead> <tr> <th>Product</th> <th>Interior package</th> <th>Exterior package</th> </tr> </thead> <tbody> <tr> <td>13, 25, 47 mm Discs</td> <td>Discs separated by blue paper in a thermoformed tray</td> <td>Clear/white plastic box, 4 5/8" x 3 1/2" x 3/4"</td> </tr> <tr> <td>90, 142, 293 mm Discs</td> <td>Discs separated by blue paper</td> <td>Size specific top and bottom</td> </tr> <tr> <td>20 x 20 cm sheets</td> <td>Sheets separated by blue paper</td> <td>Plastic bag inside 9 x 11.5" mailer</td> </tr> </tbody> </table> </li> <li>• Each configuration will be labeled with:           <ul style="list-style-type: none"> <li>○ Quantity</li> <li>○ Product item code and description</li> <li>○ Manufacturing date</li> <li>○ Lot number</li> <li>○ Storage conditions</li> </ul> </li> <li>• An example of a label is below</li> </ul>	Product	Interior package	Exterior package	13, 25, 47 mm Discs	Discs separated by blue paper in a thermoformed tray	Clear/white plastic box, 4 5/8" x 3 1/2" x 3/4"	90, 142, 293 mm Discs	Discs separated by blue paper	Size specific top and bottom	20 x 20 cm sheets	Sheets separated by blue paper	Plastic bag inside 9 x 11.5" mailer
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**CERTIFICATE OF COMPLIANCE** A conformity declaration will be sent to the customer for each shipment with lot number and date of manufacture. The Quality management system is in compliance with ISO 9001.

**VISUAL REQUIREMENTS** *Visual acceptance requirements apply when inspected under below conditions:*  
Magnification: None  
Light type: Ambient

Acceptance Requirement		Sampling Plan
Bad Print of Grid (if applicable)	None	100% Inspection
Creases/Folds	None	
Cracks	None	
Pin Holes	None	
Wrinkles	None	
Tension Lines	None	

Acceptance Requirement			Standard Test Method
1	Thickness	110-190 µm	N/A
2	Water Flow Rate	Min 34 mL/min/cm <sup>2</sup> @ 10 psi	ASTM F 316-03 (2011)
3	Bubble Point	30-42 psi (2.0-2.8 bar)	ASTM F 316-03 (2011)

This material specification describes the properties of product above indicated.  
This document contains general requirements, material description, drawing references, defect specification, and biological material requirements.


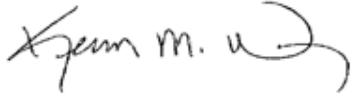


FILTER TECHNOLOGY

# PRODUCT SPECIFICATION

<b>Product PN</b>	1215257, 1215263, 1215019, 1214969, 1215281, 1215207, 1214977, 1215305, 1215316, 1215323, 1225781, 3053082	<b>Mod. 984</b>
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## REVISIONS AND APPROVALS:

DATE	REV	REASON FOR CHANGE	ISSUED AND CONTROLLED BY: (name /function and signature)	APPROVED BY: (name /function and signature)
10/16/19	0	Initial Release	Gil Tavares/Process Development Engineer 	Kevin Wrigley/Director of Quality 

## CUSTOMER APPROVAL:

We accept this material specification as a part of the agreed terms of delivery.

Company name \_\_\_\_\_

Approved by: \_\_\_\_\_  
(Name, Function) (Signature)

Date \_\_\_\_\_  
(Company stamp)

Please send back this document signed for approval. If we will not receive this specification signed, we consider the first order placed as implicit approval.