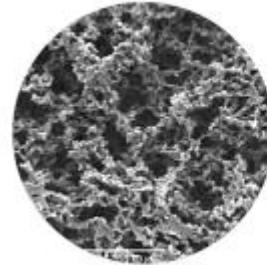


Product PN	1216721, 1216719, 1215230, 1214991, 1214923, 1213643, 1222980, 1215237, 1214866, 1215249, 1213145	Mod. 984
Description	0.45 µm Nitrocellulose (NC) Filtration Membrane in Discs, Sterile	Rev. 01

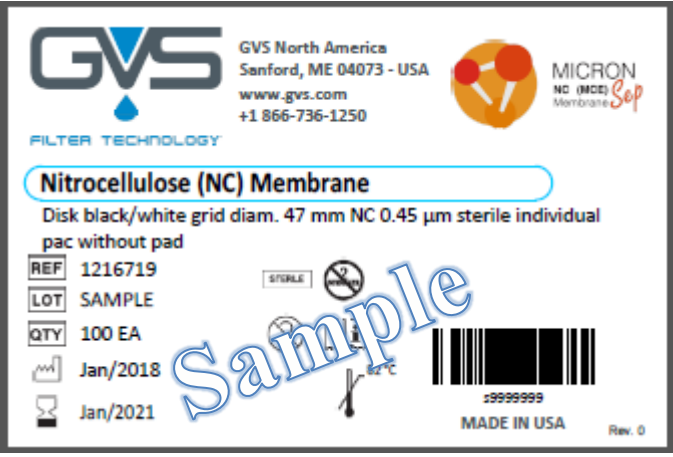
0.45 µm Nitrocellulose (NC) Filtration Membrane in Discs, Sterile



PRODUCT DESCRIPTION	<p>0.45 µm Sterile Nitrocellulose (NC) Filtration membrane packaged in discs</p> <table border="1" data-bbox="371 869 1509 1283"> <thead> <tr> <th>Part Number</th> <th>Geometry</th> <th>Color</th> <th>Individually Packaged</th> <th>Dimensions</th> <th>Packaging</th> </tr> </thead> <tbody> <tr> <td>1216721</td> <td>Disc</td> <td>White/black grid</td> <td>Without Pad</td> <td>47mm</td> <td>100/Pk</td> </tr> <tr> <td>1216719</td> <td>Disc</td> <td>Black/white grid</td> <td>Without Pad</td> <td>47mm</td> <td>100/Pk</td> </tr> <tr> <td>1215230</td> <td>Disc</td> <td>White/black grid</td> <td>Without Pad</td> <td>47mm</td> <td>200/Pk</td> </tr> <tr> <td>1214991</td> <td>Disc</td> <td>Black/white grid</td> <td>Without Pad</td> <td>47mm</td> <td>200/Pk</td> </tr> <tr> <td>1214923</td> <td>Disc</td> <td>White/black grid</td> <td>Without Pad</td> <td>47mm</td> <td>1000/Pk</td> </tr> <tr> <td>1213643</td> <td>Disc</td> <td>Black/white grid</td> <td>Without Pad</td> <td>47mm</td> <td>1000/Pk</td> </tr> <tr> <td>1222980</td> <td>Disc</td> <td>White/black grid</td> <td>Without Pad</td> <td>50mm</td> <td>1000/Pk</td> </tr> <tr> <td>1215237</td> <td>Disc</td> <td>White/black grid</td> <td>With Pad</td> <td>47mm</td> <td>100/Pk</td> </tr> <tr> <td>1214866</td> <td>Disc</td> <td>Black/white grid</td> <td>With Pad</td> <td>47mm</td> <td>100/Pk</td> </tr> <tr> <td>1215249</td> <td>Disc</td> <td>White/black grid</td> <td>With Pad</td> <td>47mm</td> <td>1000/Pk</td> </tr> <tr> <td>1213145</td> <td>Disc</td> <td>Black/white grid</td> <td>With Pad</td> <td>47mm</td> <td>1000/Pk</td> </tr> </tbody> </table>	Part Number	Geometry	Color	Individually Packaged	Dimensions	Packaging	1216721	Disc	White/black grid	Without Pad	47mm	100/Pk	1216719	Disc	Black/white grid	Without Pad	47mm	100/Pk	1215230	Disc	White/black grid	Without Pad	47mm	200/Pk	1214991	Disc	Black/white grid	Without Pad	47mm	200/Pk	1214923	Disc	White/black grid	Without Pad	47mm	1000/Pk	1213643	Disc	Black/white grid	Without Pad	47mm	1000/Pk	1222980	Disc	White/black grid	Without Pad	50mm	1000/Pk	1215237	Disc	White/black grid	With Pad	47mm	100/Pk	1214866	Disc	Black/white grid	With Pad	47mm	100/Pk	1215249	Disc	White/black grid	With Pad	47mm	1000/Pk	1213145	Disc	Black/white grid	With Pad	47mm	1000/Pk
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1213145	Disc	Black/white grid	With Pad	47mm	1000/Pk																																																																				
MANUFACTURE NAME	<p>GVS North America, Inc. 63 Community Drive Sanford, ME 04073 Phone: +1.866.736.1250 Email: CustomerCareGVSLS@gvs.com Website: www.gvs.com</p>																																																																								
INTENDED USE/ APPLICATION	<p>These products are sterile filtration membranes, often used for air monitoring, bioassays, aqueous filtration, gravimetric analysis with ashing technique, microbiology and particulate analysis, and cytology.</p>																																																																								
MATERIALS	<p>Membrane: Nitrocellulose (NC) Filtration membrane Pad (if applicable): 100% cotton paper</p> <p>Regulatory Documentation Required:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Biocompatibility according ISO 10993-1 <input type="checkbox"/> IMDS <input type="checkbox"/> Rohs, directive 2002/95/CE <input checked="" type="checkbox"/> BSE/TSE, directive 2003/32/CE <input type="checkbox"/> DEHP plasticizer and latex free <input type="checkbox"/> Aging <input checked="" type="checkbox"/> Reach 1907/2006/CE (hazardous substances regulation) <input type="checkbox"/> Dir. 67/548/CE and Reg. 1272/2008/CE (medical sector dangerous substances) <input checked="" type="checkbox"/> Conflict minerals 																																																																								

PRODUCT SPECIFICATION

Product PN	1216721, 1216719, 1215230, 1214991, 1214923, 1213643, 1222980, 1215237, 1214866, 1215249, 1213145	Mod. 984
Description	0.45 µm Nitrocellulose (NC) Filtration Membrane in Discs, Sterile	Rev. 01

	<input checked="" type="checkbox"/> USP Class VI						
PRODUCT CHARACTERISTICS	<ul style="list-style-type: none"> White or black gridded membrane configured in discs with or without pad High flow rates, fast filtration rates Uniform pore structure; consistent flow and diffusion rates Sterile Hydrophilic Max. operating temperature: 356°F (180°C) 						
WARNINGS	Nitrocellulose membrane is highly flammable. Keep away from heat and open flame. Flash point is approximately 200°C.						
PRODUCT SHELF LIFE	3 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.						
STERILIZATION	This is a sterile product, sterilized by Gamma Irradiation						
PACKAGING AND LABELING	<ul style="list-style-type: none"> Primary packaging: <table border="1" data-bbox="384 1131 1497 1227"> <thead> <tr> <th>Product</th> <th>Interior package</th> <th>Exterior package</th> </tr> </thead> <tbody> <tr> <td>47, 50 mm Discs</td> <td>Individually sealed disc (with or without pad) on a blue paper</td> <td>Box, 5 1/2" x 2 3/4" x 3 1/8"</td> </tr> </tbody> </table> <ul style="list-style-type: none"> Each configuration will be labeled with: <ul style="list-style-type: none"> Quantity Product item code and description Manufacturing date Lot number Storage conditions <p>Example label below:</p> 	Product	Interior package	Exterior package	47, 50 mm Discs	Individually sealed disc (with or without pad) on a blue paper	Box, 5 1/2" x 2 3/4" x 3 1/8"
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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	<i>Visual acceptance requirements apply when inspected under below conditions:</i>			
	Magnification: None			
	Light type: Ambient			
	Acceptance Requirement		Sampling Plan	
	Gridding	Visible	100% Inspection	
	Misaligned Grid Lines	None		
	Pin Hole	None		
Poor Seal of Pack	None			
Cut Seal of Pack	None			
Contaminates	None			
PERFORMANCE REQUIREMENTS	Acceptance Requirement		Standard Test Method	
	1	Thickness	110-190 µm	N/A
	2	Water Flow Rate	Min 34 mL/min/cm ² @ 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.


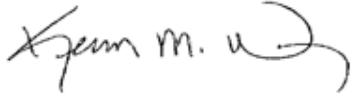


FILTER TECHNOLOGY

PRODUCT SPECIFICATION

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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.