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SpinTek Experimental SS / 3CM Membrane Flat

Lot Number & Date:	<u>32ext23/05</u>	<u>18-Nov-05</u>
Quantity:	<u>2</u>	
Nominal Pore Size:	<u>0.5µm</u>	
<u>Per ASTM F 316: max pore size ~ 2.0µm (see note 1 below)</u>		

Flow Rate:

Distilled water at Trans Membrane

Pressure of 2.0 kg/cm ² :	<u>Nominal flow rate of 8000±15%</u>
	<u>liter/(hour meter²)</u>

Dimensions of SpinTek filter membrane disk:

Diameters:	<u>Ø_{out} = 269.9 mm with tolerances of minus 0.4 mm, plus zero mm</u>
	<u>Ø_{int} = 57.9 mm with tolerances of minus 0 mm, plus 0.25 mm</u>

Total m ² of filtering area:	<u>0.054m²</u>
Attachments:	<u>none</u>
Thickness:	<u>130µm±20µm</u>

Additional Notes:

1. Visual Bubble Point Testing was conducted in accordance with ASTM (American Society for Testing and Materials) standard F316-86 (Standard Test Methods for Pore Size Characteristics of Membrane Filters by Bubble Point and Mean Flow Pore Test), test method A, paragraph 7.3, using 98% ethanol. Results of this test using a 47mm diameter disc made from this production lot indicates that, per paragraph 4.2, the "bubble point" pressure ("pressure required to blow the first continuous bubbles detectable by their rise through a layer of liquid covering the filter") is 0.44 kg/cm². Foam all over bubble point, which indicates the mean pore size, was at a substantially higher pressure of 2.2 kg/cm²; this equates to a nominal pore size as reported at the top of the page.

2. Ceramic layer is the lighter of the two sides, sometimes light to dark white in color, and should face the flow.