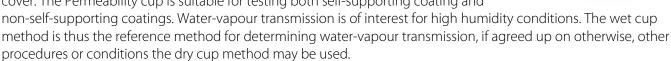


TQC PERMEABILITY CUPS VF2200, VF2201

PRODUCT DESCRIPTION

Permeability cups for determining the water-vapour transmission of paints, varnishes, coatings, coating systems and related products. The Permeability cup consists of a cup, seal ring and cover ring. The seal ring is designed to prevent turning when closing the cover. The Permeability cup is suitable for testing both self-supporting coating and



BUSINESS

Coating Laboratories / Paint Production

STANDARDS

ISO 7783 (supersedes NF T30-018), ASTM D1653, ASTM E96

FEATURES

- Level indicator
- Width support ring
- Easy to use
- Non-rotational Seal ring
- Easy to clean

SCOPE OF SUPPLY

Permeability cup, consisting of:

- Cup
- Seal ring
- Cover ring

ORDERING INFORMATION

VF2200 - TQC Permeability cup 10cm² VF2201 - TQC Permeability cup 25cm²



Industrial Physics Inks & Coatings B.V. Molenbaan 19 2908 LL Capelle aan den IJssel The Netherlands +31(0) 10 - 79 00 100
+31(0) 10 - 79 00 129

info-ic@industrialphysics.comwww.industrialphysics.com/ic

TQC Sheen, C&W Specialist Equipment , Fibro System and Sheen Instruments are part of the Inks & Coatings division of Industrial Physics.







SPECIFICATIONS

	Article number	VF2200	VF2201	
	Surface area:	10 cm ² / 1,55 inch ²	25 cm ² / 3,88 inch ²	
	Volume	16cm ³ / 0,98 inch ³	40cm ³ / 2,44 inch ³	
	Internal diameter*:	35,7mm / 1.41 inch	56,40mm / 2,22 inch	
	External diameter*:	65,8mm / 2,59 inch	89,0mm / 3,5 g	
	Mass: (of empty cup)	Approx. 70 g / 2,47 oz	Approx. 94 g / 3,32 oz	
	Material:	Anodized Aluminium	Anodized Aluminium	
*	* without seal			

USE

Prepare the film (coating material) to be tested, either in self-supporting or non-self-supporting form.
 a. Self-supporting coating films can best be created using a non-stick substrate, for example silicone coated paper. The suitable non-stick substrate can vary per application.

b. The sample can be cut to the appropriate size by using the seal ring as a cutting guide.

- 2 Fill the Permeability cup with the specified volume or to the specified distance from the edge with the required liquid or for the dry cup method with dry desiccant.
- 3 Place the pre-cut sample over the seal ring and align.
- 4 Place the seal ring with the sample on the flange of the cup, such that the film is between the cup flange and the seal ring. Take care that the seal ring is properly aligned to the pins on the outside of the flange.
- 5 Place the sealing ring and screw hand tight.
- 6 Weigh the assembly and record the mass in grams (M1) by means of a balance suitable to determine the change in mass of the test assembly. Balances with a resolution 0,001 g are found the most suitable.
- 7 Place the cup in a test environment as stated in the standard, and leave it undisturbed for the period of time stated in the test protocol / standard.
- 8 Weigh the assembly and note the weight at regular intervals (M2), until the mass loss per hour is linear.
- 9 Calculate the water-vapour transmission rate of the film in grams per square metre per day (g/(m2/d)). The required formula for the calculation depends on the used method dry cup or wet cup.
- 10 In order to open and clean the cup after the test the seal ring can best be released using the openings on the side of the cup.
- 11 After testing always store the clean cup in a dry environment.

SPECIAL CARE

- Always clean the instrument after use with a suitable solvent.
- Never clean the instrument by mechanical means such as a wire brush or abrasive paper. This may cause like the use of aggressive cleaning agents permanent damage.
- Regularly check the instrument for defects.

DISCLAIMER

The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

 Industrial Physics Inks & Coatings B.V.
 2908 LL Capelle aan den IJssel
 © +31(0) 10 - 79 00 100
 @

 Molenbaan 19
 The Netherlands
 🕲 +31(0) 10 - 79 00 129
 @

info-ic@industrialphysics.comwww.industrialphysics.com/ic

TQC Sheen, C&W Specialist Equipment , Fibro System and Sheen Instruments are part of the lnks & Coatings division of industrial Physics.