

pH of 1.0% Dispersion

Applicable Product: Noveon[®]* AA-1 Polycarbophil

Scope:

This procedure describes a means of determining the pH of a 1.0% dispersion of Noveon[®] AA-1 polycarbophil.

Abstract:

A 1.0% dispersion of Noveon[®] AA-1 polycarbophil is prepared. The pH of the dispersion is determined using a pH meter with a calomel-glass electrode.

Safety Precautions:

1. Wear safety goggles and gloves and follow good laboratory practices.
2. Polymer dust is irritating to the respiratory passages and inhalation should be avoided.
3. See all Material Safety Data Sheets (MSDS) for additional safety and handling information.

Interferences:

The introduction of acidic or basic contaminants will influence the pH measurement.

Apparatus:

1. Laboratory balance capable of ± 0.01 gram accuracy.
2. Flask, 500 ml.
3. Graduated cylinder, 100 ml.
4. Mechanical shaker.
5. Parafilm.
6. Weighing dish.
7. Beaker, 300 mL.
8. pH meter equipped with a calomel-glass electrode.

Reagents:

1. Deionized water.

Procedure:

1. Weigh 1.00 g \pm 0.01 g of the Noveon[®] AA-1 polycarbophil to be tested into a weighing dish.
2. Measure 100 mL deionized water in a graduated cylinder and transfer to a 500 ml flask.
3. Transfer the sample from the weighing dish to the flask.
4. Cover the mouth of the flask with parafilm. Extend the parafilm down the neck of the flask and secure with a rubber band.
5. Place the flask on a mechanical shaker for one hour. Ensure contents are adequately mixed.
6. Transfer the contents of the flask to a 300 mL beaker.
7. Determine the pH of the dispersion with the pH meter equipped with a calomel-glass electrode.
8. Record the pH meter reading.

References:

- *Current edition of the United States Pharmacopoeia/National Formulary (USP/NF)*

Lubrizol Advanced Materials, Inc. / 9911 Brecksville Road, Cleveland, Ohio 44141-3247 / TEL: 800.379.5389 or 216.447.5000

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and

equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the application disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability of any use of handling of any material beyond Lubrizol Advanced

Materials, Inc.'s direct control. THE SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

For further information, please visit www.pharma.lubrizol.com