Ford Motor Company

FORD LABORATORY TEST METHOD BZ 105-01

SIEVE ANALYSIS OF MOLECULAR SIEVE DESICCANT

Application

This test method describes the procedure used to determine the distribution of particle sizes in a sample of molecular sieve desiccant by shaking through a nest of U.S. standard sieves.

Apparatus Required

Sieve Shaking Machine

RO-Tap machine or equivalent. VWR Scientific Catalog No. 57420-039.

Source: VWR Scientific
Chicago Regional Distribution Center
800 East Fabyan Parkway
Batavia, IL 60510
Phone: 1-800-932-5000

Sieves

The following U.S. standard 20.3 cm (8 inch) full height sieves shall be used unless otherwise specified. VWR Scientific catalog numbers are also provided for reference.

U.S. Number	VWR Catalog No.
3 ½	57320-384
6	57320-442
8	57320-486
20	57320-002
100	57320-806
Pan	57355-006
Cover	57356-009

Analytical Balance

Accuracy to 1 mg.

Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Date	Action	Revisions
2001 04 30	Revised	Editorial – no technical change A. Cockman
1998 08 12		

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Procedure

Note: The material is a desiccant. Sample must be taken from a previously unopened container.

1. Weigh 100 +/- 0.5 g of dry molecular sieve material. Record weight.
2. Stack sieves in order of mesh size with coarsest sieve on top and pan on bottom.
3. Place weighed sample on top sieve (No. 3 1/2). Put cover in place.
4. Place nested sieves in RO-Tap machine and shake for 10 +/- 0.3 minutes.
5. Remove the material collected on each sieve and weigh to the nearest 0.1 g.
6. Carefully remove the material collected on the pan and weigh to the nearest mg.
7. Divide weights of each fr action by the original weight and multiply by 100 to obtain percentage. Report each fraction to the nearest 0.1 % except for that collected in the pan which shall be reported to the nearest 0.01 %.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.

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