Customer Information

Test method to determine the residual moisture content

1. Silica Gel

The percentage of moisture content of the desiccant is called residual moisture content. To define the residual moisture content 5-10g silica gel will be weighed in a hull of a moisture analizer. Silica gel will be dried with 120°C up to a constant weight. The difference of weight shows the loss of moisture. The residual moisture content is shown on the display of the moisture analizer and can be printed by a record-printer.

In accordance with statement Defect Evaluation List (DEL) for Plastic Stoppers, Desiccators and Caps; (Editio Cantor – Verlag, Aulendorf, Edition 18 of 1995). Silica gel has a permitted residual moisture content of 3%.

2. Molecular Sieve

In order to determine the residual moisture content approx. 5g Molecular Sieve will be weighed exactly to 1mg in a tared China pan (volume about 30ml). Then the pan will be set into a muffle furnace which is candled to 950°C. It will stay there for one hour.

Following it will be cooled down in a desiccator to room temperature and thereafter weighed back. The difference in weight (stated in percent) corresponds to the residual moisture.

In accordance with statement Defect Evaluation List (DEL) for Plastic Stoppers, Desiccators and Caps; (Editio Cantor – Verlag, Aulendorf, Edition 18 of 1995). Molecular sieves have a permitted residual moisture content of 6%.

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