

Test Procedure for CRL-MSD adsorbent

...for determining the residual moisture content of your CRL-MSD adsorbent for insulating windows

This test was designed as a quick method for determining the residual moisture of your MSD adsorbent. Our objective is to give you the capability to check your "super" desiccant for residual moisture content after the drums have been opened and used for a period of time.

Test Procedures:

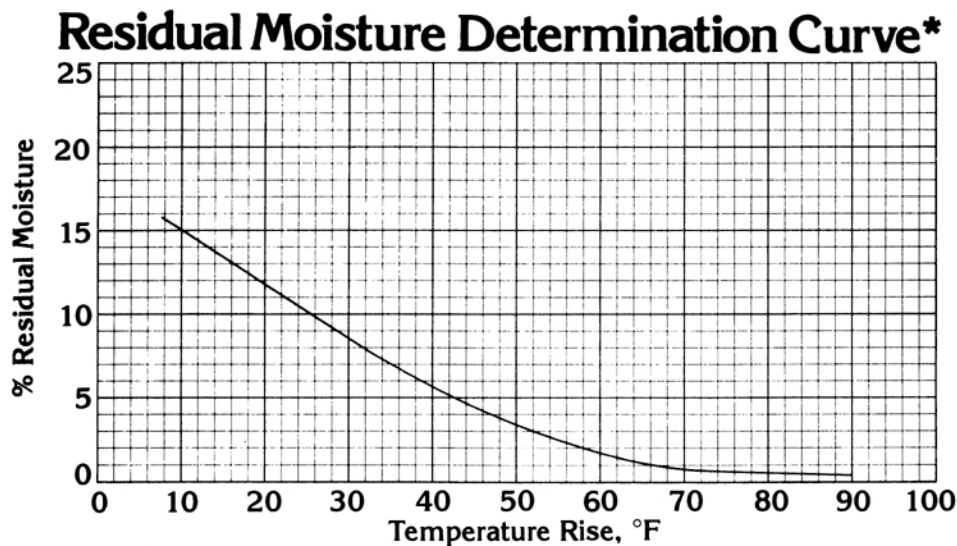
1. Fill one glass to the 40ml line with water.
2. Measure the temperature of the water in the glass with the enclosed thermometer (calibrated 2 degrees per mark) and record. The water temperature should not be below 60°F.
3. Fill the other glass to the 45ml line with the MSD adsorbent to be tested. It is important that the glass is completely dry before your "super" desiccant is added. Even trace moisture will be rapidly absorbed and give you the wrong results.
4. Dry off the thermometer and place it in the glass with the MSD adsorbent. Now quickly pour the water into the glass containing the MSD adsorbent, as you stir with the thermometer. Record the peak temperature which

should be reached within 10 to 20 seconds. Again, note that each line on the thermometer equals 2°F. **Never add MSD adsorbent to water**, since the resulting peak temperature can be as much as 10°F below what it should be.

5. Subtract the starting water temperature from the peak temperature and get the resulting temperature rise. Next refer to the graph and find the temperature rise you have measured. Read the corresponding percent residual moisture.

6. To get the most accurate answer, do the test three times and take an average of the three results. Make sure that the glass used for your MSD adsorbent is dried between each test.

Note: It is important that the instructions be followed exactly each time a residual moisture check is made. Under normal conditions this test can be expected to yield results which are within ± 2 wt.% of the actual residual moisture content. This test is calibrated for checking CRL's MSD adsorbent. It is not accurate for other adsorbents and desiccants.



*Slightly different results may be obtained due to operator variance. Temperature Rise: 0°F-38°F—QUESTIONABLE; 38°F-48°F—GOOD; 48°F or More—EXCELLENT



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