

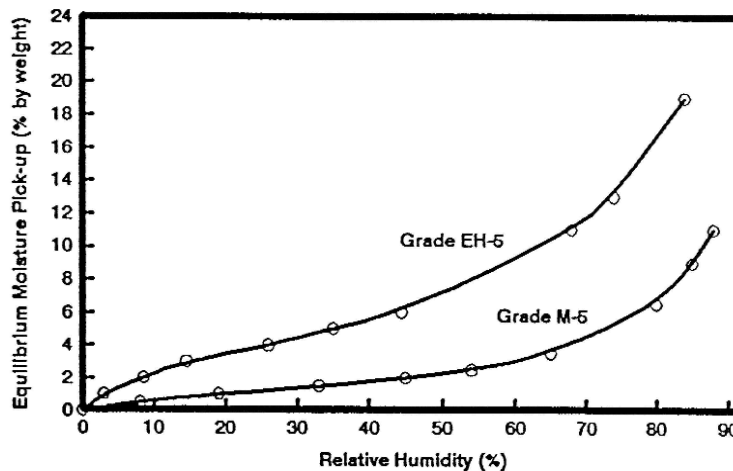


Storage of CAB-O-SIL® Fumed Silica

CAB-O-SIL® fumed silicas will not degrade with time; however, it should be noted that certain grades are hydrophilic and will absorb moisture and other vapors. Due to this, it is recommended that fumed silica be stored in a clean, dry area away from chemical vapors at ambient temperatures. Further, it is recommended that fumed silica packaged in paper bags be used within two years after manufacture date as bags may begin deteriorating beyond this time period.

The moisture content of hydrophilic grades of fumed silica is typically less than 1.0 % by weight at the time of packaging, but this can increase with time, depending upon temperature and relative humidity. The graph below reflects the equilibrium moisture levels for CAB-O-SIL® M-5/M-5P and EH-5, hydrophilic silicas with BET Surface Areas of 200 and 380 m²/g respectively. The equilibrium moisture absorption is significantly greater for higher surface area, hydrophilic silica.

Adsorbed surface moisture can interfere in some applications. It is recommended that the user determine the appropriate storage conditions, both temperature and humidity, that will assure acceptable performance of the fumed silica in the application. Adsorbed surface moisture can be removed by vacuum drying or heating the fumed silica.



Moisture adsorption by CAB-O-SIL fumed silica as a function of the relative humidity at 23.5°C.

The data and conclusions contained herein are based on studies made in Cabot Corporation laboratories and are believed to be reliable. We do not guarantee that similar results and/or conclusions will be obtained by others. We disclaim any liability resulting from the use of the contents of this report.

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