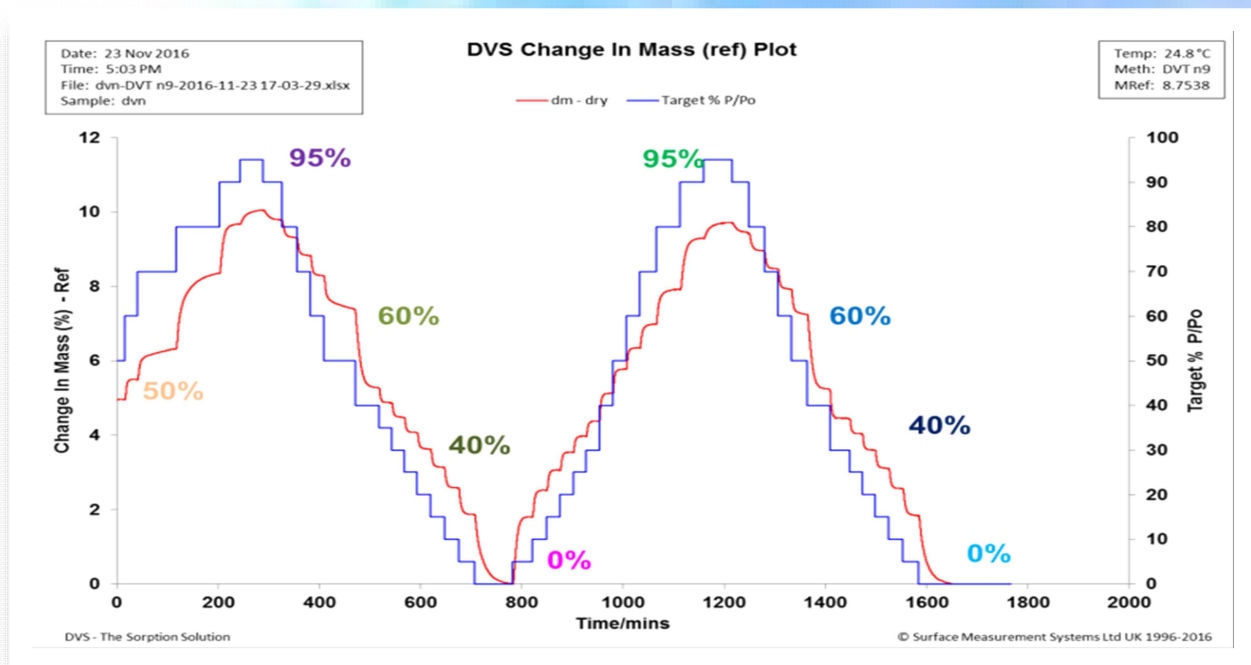




Dynamic Vapour Sorption(DVS) Applications Studies



Abstract

Moisture has a large impact on the mechanical, physical and chemical properties of many materials. This workshop highlights a series of experimental method of water and organic solvents sorption characterization for determining vapour sorption isotherms of pharmaceutical, food, porous materials and polymers. Using a novel dynamic flow configuration, this gravimetric experimental system can measure both competitive multicomponent adsorption processes as well as water sorption and glass transition process. This characterization technique can not only be used across a wide range of materials at different temperatures, but is well suited for adsorption studies using organic vapours at high partial pressures. This workshop highlights a few examples of case studies such as BET surface area, amorphous content and diffusion, permeability parameters. Moreover, we will focus on the characterization of the T_g RH (the critical relative humidity at the specific glass transition temperature) as well as camera and Raman applications.

2017년 12월 06일(수) 13:30~16:30

한국화학연구원 디딤돌 플라자 3층 세미나실

Speaker : Dr. Damiano Cattaneo