

Cement Project

These data are laboratory based but relate to the cement used to fix artificial hips into place. If the cement is too porous when it dries the artificial hip is prone to loosen after a period of a few years and may need to be revised earlier than is desirable.

The cement is made up from several batches (`Batch` in the data set) of dry mix. The method of mixing, using a standard mixer (`Mix=1`) or a vibration unit (`Mix=2`) and the temperature of the liquid ingredient when introduced to the mix is low (`Temp = 1`) or high (`Temp = 2`) were varied in the experiment. The outcome y is a measure of the porosity of the sample when set.