

# Montmorillonite

Montmorillonite or smectite is family of expansible 2:1 phyllosilicate clays having permanent layer charge because of the isomorphous substitution in either the octahedral sheet (typically from the substitution of low charge species such as  $Mg^{2+}$ ,  $Fe^{2+}$ , or  $Mn^{2+}$  for  $Al^{3+}$ )

