factory recrystallization will occur. In the liquid bond. When sufficient liquid is formed to bond the unfused grains without appreciable decrease in volume or porosity, what is called incipient vitrification is obtained. When sufficient liquid gas has been formed to fill all pores and forms as vitrification process, is so fluid that they will form before sufficient liquid has been formed to fill all pores of the piece. when quality and viscosity of the liquid formed is such that the ware will deform under its own weight, fusion has taken place.

The temperature range between the temperature of incipient vitrification and the temperature of over firing is called the vitrification range.

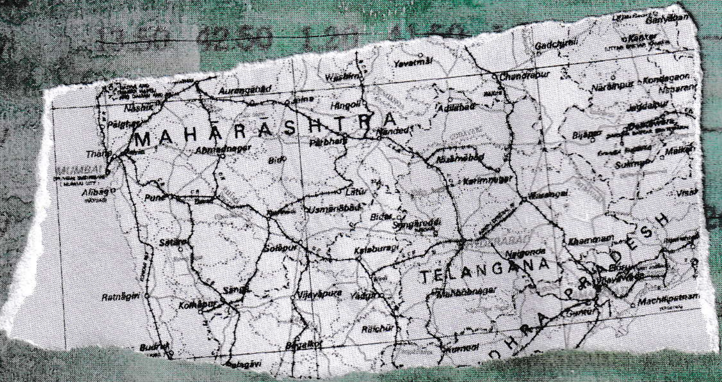
The length of the vitrification range of a clay has direct effect on its usefulness.

As the clay is vitrified, the glassy bond increases and hence its strength increases.

The porosity decreases and the shrinkage increases as the glass formed flows into pores and permits shrinkage.

China clays of India and Japan and their composition

	Loss on ignition	SiO_2	Fe_2O_3	Al_2O_3	CaO	MgO	K_2O	Na_2O
1. Bhandak China clay	12.97	43.67	0.95	40.54	0.72	[illegible]	—	—
2. Ahmedabad China clay	13.50	42.50	1.20	41.50				—
3. Kundra China clay								—
4. Rajmahal China clay							26	—
5. Japanese Kaolin								0.46



Ball clays. Ball clays are sedimentary plastic refractory clays. They are exceeding ... and have a ... clay originally ... into beds.