Viscosity, surface tension and density of Na$_2$B$_4$O$_7$-CaO melt were measured at 1173K when CaO content varied from 0 to 28.6 mol%. Results shows viscosity is 0.759 to 0.033 (Pa s) while surface tension and density change little. The foaming index was calculated by above measured value through the empirical equations in literature and compared with the experimental foaming index by Ar injection. The difference is remarkable on which discussion is given as well as the validity of foaming index.