Foam concretes can be produced with aggregate or without aggregate. In this study, the possibility of using PC ash as lightweight aggregate in the production of foam concrete was investigated. Waste-PC ash is emerging from the pulverized coal furnace about 10 tons/day in a textile factory located in the vicinity of Dinar (Afyonkarahisar). The chemical properties, particle size distribution and grain densities of PC-ash were determined. Foam concrete with a dry density of 450 kg/m³ at a cement dosage of 250 kg/m³ and w/c:0.65 was produced after the aggregate analysis. The PC-ash which is used in foam concrete mix is between 0 and 200 kg/m³. 100 mm cube and 300x300x50 mm prism samples were prepared with this foam concrete. The compressive strengths of the cube samples and the thermal conductivity coefficient of the prism samples were tested at the 28th day. The average compressive strength of foam concrete samples with a density of 452 kg/m³ was determined as 1.07 MPa and the thermal conductivity coefficient was determined as 0.097 W/mK. As a result, it has been determined that PC-ash as lightweight aggregate can be successfully used in production of precast element and light floor-screed.