

The invention relates to a dielectric element (2) for a high-voltage insulator (1) with a very high, higher than 700 kN, tensile strength, the insulator being made of tempered glass and being axisymmetric about a longitudinal axis (A) and comprising a hollow head (6) extended by a finned skirt (7). It is shaped so as to have a creepage length of between 550 and 800 mm for a skirt (7) outer diameter (DJ) of between 380 and 450 mm and for a pitch (P) of between 260 and 290 mm, the dielectric element furthermore weighing between 0 and 13 kg.