

The inductive heating device (1) for aerosol-generation comprises a device housing comprising a cavity (13) having an internal surface for receiving at least a portion of an aerosol-forming insert (2) comprising an aerosol-forming substrate and a susceptor. The device housing further comprises an induction coil (15) having a magnetic axis, the induction coil (15) being arranged such as to surround at least a portion of the cavity (13). The device (1) yet further comprises a power source (11) connected to the induction coil (15) and configured to provide a high frequency current to the induction coil (15). Therein, a wire material forming the induction coil has a cross-section comprising a main portion, the main portion having a longitudinal extension in a direction of the magnetic axis and a lateral extension perpendicular to the magnetic axis, which longitudinal extension is longer than the lateral extension of the main portion.