

Method for preventing spontaneous combustion of coal in mine face consists in introducing inerting agents into mined-out space. Inerting agents are continuously fed into atmosphere of mined-out space as mining face advances through the geological formations of coal seam and rock strata. During roof caving, as determined by monitoring equipment, these inerting agents are sprayed immediately behind the advancing mining face into air outflows from mining face, in an amount that ensures the minimum necessary concentration of these agents in air-methane mixture, which cannot spontaneously combust.