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Analytical dependence that allows for approximate cal-culation of efficient heat conductivity for bimetal central elec-trode of ICE spark plug has been obtained. It shows that effi-cient heat conductivity of bimetal electrode is a function of numerous variable geometrical and thermophysical factors. It follows from this dependence that by changing the geometric parameters of an envelope and electrode core it is possible to vary the value of its efficient heat conductivity in a wide range and thus to control thermal characteristic of a spark plug. It means that the established dependence can be used to select thermal characteristics for spark plugs. The dimensions of other elements of a working portion of a plug may remain un-changeable. Table 1. Il.4. Bibliogr. 6 names.