

The invention concerns forming by a method of electron-beam physical precipitation of steams of external ceramic coating, which forms thermal barrier, mainly on metal product from superalloys. A target in the form of core is used as a source for coating forming, which has heterogeneous composition in longitudinal direction and contains at least three layers of various composition, at that into every layer the composition homogeneous on all cross section of the core, and every layer contains zirconium dioxide and at least one oxide chosen from a group, which includes oxides of nickel, cobalt, iron, yttrium, hafnium, cerium, lanthanum, tantalum, niobium, scandium, samarium, gadolinium, dysprosium, ytterbium and aluminium. A rode is made by preparation of different mixtures of powder-like materials, which correspond the various desired compositions of rode layers, which are successively introduced into the form, compacted and sintered.