

SOLID STATE MATERIAL

Abstract

A process for the treatment of solid state materials is described, in which pores with a cross section of up to 100 nm are formed in the surface layer of the material, and these pores are filled with filaments of another material or of the same material. This produces an improvement in a number of characteristics of the material: strength, acoustic losses. The invention may be used most successfully in the production of piezo-ceramics.