

The scintillation material on the basis of fluoride of alkaline earth metal contains activator. As a basis the magnesium fluoride serves, but as activator – the chrome ions in quantity of 0.07-0.3 mass degrees. The process for preparation of scintillation material on the basis of fluoride of alkaline earth metal comprises the introduction of activator to the base, preparation of half-finished product, holding it till cooling down and further mechanical treatment. The process is carried out by means of hot-pressing on air the mixture of powder of magnesium fluoride and potassium bichromate in mass ratio 1000:(2-9) till forming of translucent polycrystalline solid body.