

Filter for absorption of thermal and resonance neutrons. / N. V. Bagdavadze, T. I. Zedginidze, T. G. Petriashvili. / Nano Studies. – 2015. – # 12. – pp. 169-172. – rus.

The technology of neutron filter for absorption of thermal and resonance neutrons on the basis of cadmium oxide has been proposed for increasing the absorption ability of the filter in the neutron energy interval 3 – 62 keV. The mixture of cadmium oxide powder and metallic selenium pressed up to the density of 4.7 – 5.0 g / cm³ and the thickness 4 – 7 mm was used as a material. A fractions of cadmium oxide in the powder mixture and metallic selenium are 14.0 – 25.5 and 75.5 – 86.0 mass. %, respectively. Fig. 2, Ref. 2.

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