

The invention relates to the field of magnetic cleaning of liquid and gaseous working media, in particular to the methods of obtaining the high-gradient ferromagnetic caps, and it can be used in those branches of industry, where there is a need for cleaning liquid and gaseous media both from ferromagnetic and non-ferromagnetic admixtures, for example, in food industry and medicine. In a method of producing a cap for magnetic filter, which operated in the clearances of magnetic systems, which includes putting magnetic powder on basis and application of magnetostatic field, it is provided to find the optimum size of the element of the cap by formula:

$$V_{cp} = \frac{V_0}{N_k}$$

where  $V_0$  - volume of initial cluster of powder,

and the formation of the cap is carried out by application to the powder  $N$  of the pulses of magnetic field with amplitude  $H_2$ , which is determined preliminarily on the basis of the dependence of the diameter of area, which is occupied with separate elements, on the intensity of external field, and value  $N$  is determined from preliminary measurements on the dependence of average size of the element of the cap on the quantity of pulses. Technical result consists in the creation of loads, in which quantity and average sizes of single elements can be adjusted with the aid of repeated addition of permanent field. They can be used for creating the optimum catching magnetic fields in cleaned working medium.