

ABSTRACT

ABRASIVE MATERIAL REGENERATION METHOD AND REGENERATED ABRASIVE MATERIAL

The problem addressed by the present invention is to provide: an abrasive material regeneration method that, by means of an efficient method, recovers cerium oxide from used abrasive material having cerium oxide as the primary component, and then can obtain a regenerated abrasive material by means of a simple method; and a regenerated abrasive material. The abrasive material regeneration method regenerates a cerium oxide abrasive material from a used abrasive material slurry containing the cerium oxide abrasive material and resulting from grinding a grinding subject having silicon as the primary component, and is characterized by regenerating the abrasive material containing cerium oxide through: a slurry recovery step (A) for recovering an abrasive material slurry discharged from a grinder; an isolation/concentration step (B) for adding a magnesium salt as an inorganic salt to the recovered abrasive material slurry, aggregating the abrasive material under the condition that the pH value of the mother liquor converted to 25 DEG C is at least 6.5 and less than 10.0, and thus isolating and concentrating the abrasive material from the mother liquor; and an abrasive material recovery step (C) for recovering the isolated and concentrated abrasive material.

Fig. 1