

CONCLUSIONS

During the study shredding of carbide mark VK6 wastes by using a mill fitted with special plates. Produced powders have sharp edges and virtually no variable chemical composition. Particles less than 50 microns had a chemical composition different from the total mass of fragments and particles.

As a result:

a) was determined that TS shredding waste packed in steel shell using rolls of plates (file's certificate grinding method) allowed to obtain fragments and powder desired shape without destroying the surface of the rolls.

b) powder obtained after repeated rolling, had a relative bulk density is varied from 0.332 to 0.435.

c) was found that powders have sharp edges and elongated particles in a wide range of sizes (from 0,16 to 3 mm). The chemical composition of particles in the mentioned above range is almost unchanged, which confirms the preservation of their performance properties.

d) obtained powders can be used to cover the working surfaces of grinding machines and walls of these devices that significantly improve their performance and reduce power consumption during the grinding of ore and coal.