Abstract

The present paper constitutes a theoretical analysis for the determination of an appropriate cast technology determination for the production of bagasse crush hammers with wear cast iron alloys. The results of welding hard facing coatings with the wear mechanisms hypothesis and appropriate metallographic structures were corroborated. Field tests with chromium cast iron hammers are proposed due that this alloys is characterized to posses chromium carbides, with the possibility to obtain different contents and distribution in austenitic, martensitic or intermediate metal matrices. Tests with 15-3 and 20-3 alloys with or without thermal treatment and metal mold casting with different cooling speeds in each work profile with the objective to obtain the appropriate metallographic structure are proposed too.

Keywords

Alloys, bagasse crush, mills hammers, welding coating.