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Microstructure and Mechanical proferties of composite material used scrap aluminium can and waste glass fabricated by Spark Plasma Sintering

BOLDBAATAR.D*, DELGERMAA.M*

****MUST, School of Mechanical Engineering and Transportation, Ulaanbaatar, Mongolia***

deegii_m@must.edu.mn

The most expensive part of metal recycling is the sorting process. Because, modern material technology, specially the most deriving process of metal alloy are done in level of element.

According to the development of recycling technology there are needs for study and comparing matrices relation of alloys and their mechanical properties with obsolete parts. Thus, through this research an alloy fabricating experiment was executed using aluminum can waste as a base and glass waste as a filler with SPS (spark plasma sintering) technology.

In order to do the experiment, there were demands to determine granular size which can satisfy uniform distribution of aluminum waste and glass waste and to optimize the proportion of can waste and waste glass powder with the determined granule size.

In this research, it shows smoothest uniform distribution while can waste and waste glass

Microstructure and mechanical properties of composite material used scraped aluminium and waste glass fabricated by spark plasma sintering

Boldbaatar.D is teacher of MUST, School of Mechanical Engineering and Transportation. He is research studying waste recycling.

Delgermaa.M has completed his PhD at the age of 30 years from Mongolian University Science and Technology. He is the professor of MUST, School of Mechanical Engineering and Transportation. She studies research of processing on mineral raw

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