

Read Dycote

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the non ferrous foundryman's handbook provides a practical reference book for all those concerned with dealing with aluminium copper and magnesium casting alloys international si units are used throughout but in almost all cases conversions to the more familiar metric and imperial units are given wherever possible casting alloy specifications include equivalent specifications for several countries as well as international specifications individual chapters cover the casting of all types of non ferrous metals for each group of alloys specifications and typical applications are described together with details of melting practice metal treatment and casting practice sand moulding materials including green sand and chemically bonded sands are also included recently there have been many major technical developments including new sand binders the adoption of metal filtration of castings and widespread use of computers for the optimisation of feeder design

reflecting the changes that have occurred in making castings this book provides a practical reference for all those concerned with making castings in any of the commonly used alloys by any of the usual moulding methods international si units metric and imperial units are used throughout

in the current study an industrial product electrical wire connector have been casted in cold chamber die casting process using lm2 aluminium alloy to produce certain specimens to be assessed under the study for the determination of the responses mechanical properties such as impact strength hardness and surface roughness as cold chamber die casting is being popularly known for its efficient and accurate casting process which can process a broad range of castings with intricate shape easily hence it requires a lot of study in controlling the process variables with optimum combination of process variables to produce defect free and sound casting therefore in the current study the process variables such as pouring temperature 725oc 750oc 775oc intensification pressure 170 kg cm² 180 kg cm² 190 kg cm² type of coating oil graphite coating dycote graphite coating and dycote coating and type of cooling air cooling

water cooling and oil cooling have been varied at three levels and 9 different experiments have been designed using taguchi array 19 orthogonal array to assess the effects of different combinations of process variables over the mechanical properties impact strength hardness and surface roughness the study aims at selecting the optimum combination process variables on the basis of the responses resulted in the 9 experiments the graphs for the responses impact strength hardness and surface roughness against each process variables have been plotted and carefully observed to identify the significant process variable along with respective level of operation affecting the respective response from the overall study intensification pressure was concluded to be the most significant process variable with maximum contribution to the impact strength and surface finish the micrograph images captured corresponding to the respective levels of intensification pressure 170 kg cm² 180 kg cm² 190 kg cm² revealed the presence of shrinkage porosity corresponding to lowest level of intensification pressure 170 kg cm² and with further increase in intensification pressure led to a decrease in the extent of presence of porosity dycote coating was considered as the most optimum coating with significant contribution to the hardness air cooling and oil cooling were equally significant process variables with equivalent contribution to the mechanical properties

the aim of this conference was to provide a platform for renowned scientists from around the world to discuss recent developments in the area of solidification science and to review the challenges in the 21st century

proceedings of the third national thermal spray conference held may 1990 long beach calif over 100 papers detail coating solutions to wear corrosion and thermal environment problems addressing various aspects of processing science abradables wear erosion corrosion surface treatment post sp

hardbound provides practical guidance suggestions and recommendations on making castings by all common casting methods aided by clear diagrams and comprehensive physical data tables the text defines technical terms details the procedures used in good foundry practice describes the industrial plant used and gives lucid explanations of casting phenomena with helpful advice on overcoming problems encountered in casting processes thoroughly updated the revisions for this edition include important new sections covering metal filtration computer applications resin bonded sand self setting processes mould and core coatings and feeding aids essential reading for anyone with an interest in foundry practice

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