

Charge Calculation Exercise

A foundry needs to produce a heat of 2 Tons of 6061 alloy. They have prepared a melt with 80% of total required tonnage using raw materials in foundry. Composition of this melt is given in following table:

Element	Mg	Si	Iron	Cu	Zn	Ti	Mn	Cr	Al
Wt.%	0.5	0.3	0.5	0.1	0.2	0.1	0.1	0.2	rest

1. Search for required elemental composition (wt.%) of 6061.
2. Then Calculate the required amounts of master alloys that need to be added to obtain the required wt.%. Present data in tabular form.
3. You should also comment on addition method of these master alloys after reading some literature.
4. Three bonus marks are for neatness and proper management of the assignment.

Note: Available master alloys of Aluminum in this foundry are:

Mg15%; Cr5%; Mn10%; Si20%; Fe2%; Cu5%

Foundry Charge Calculation

Arturo Cuomo



Foundry Charge Calculation:

Foseco Foundryman's Handbook John Brown,1994-06-15 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 **Foseco Ferrous Foundryman's Handbook** John Brown,2000-08-14 Tables and general data Sands and sand bonding systems Coatings for moulds and cores Light alloy castings Copper and copper alloy castings Iron castings Die castings Steel castings Feeding of castings Computer modelling of solidification of castings the SOLSTAR system Filtration of castings Principal Foseco products The Foundry Trade Journal ,1923 Proceedings of MPCPE 2024 Nikolai Vatin,Svetlana Roschina,Saurav Dixit,2024-12-27 This book gathers selected contributions in the field of civil and structural engineering as presented by international researchers and engineers at the International Conference on Materials Physics Building Structures and Technologies in Construction Industrial and Production Engineering MPCPE held in Vladimir Russia on April 22 25 2024 The book covers a wide range of topics including the theory and design of capital construction facilities engineering and hydraulic structures development of innovative solutions in the field of modeling and testing of reinforced concrete metal and wooden structures as well as composite structures based on them investigation of complex dynamic effects on construction objects and many others directions Intended for professional builders designers and researchers The contributions which were selected by means of a rigorous international peer review process highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations Metallurgical Technology United States. Division of Vocational and Technical Education,1968 **Foundry** ,1907 **Cost Accounting Procedure** William Burtis Castenholz,Ennes Charles Rayson,1922 **Quarterly of the Colorado School of Mines** ,1911 Quarterly of the Colorado School of Mines ... Colorado School of Mines,1907 **Colorado School of Mines Quarterly** ,1910 **Transactions of the American Foundrymen's Society** ,1903 Cost Control for Foundries Frank Everitt,Johnson Heywood,1923 **Transactions of the American Foundrymen's Association** ,1921 Vols for 1915 include proceedings of the annual meeting **The Iron Age** ,1929 **Iron Age and Hardware, Iron and Industrial Reporter** ,1922 **Iron Age** ,1904 Engineering Index Annual ,1930 **Transactions** Iron and Steel Institute,1909 *Transactions* American Foundrymen's Society,1925 Vols 5 6 9 include the Proceedings of the annual meeting *Bulletin* American Foundrymen's Society,1927

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