

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

Marco Cascella



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