

## Foundry Charge Calculation

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~~Amount of silicon to be added for 1000 kg is 1000 (2.300 2.079) 2.21 kg 100 This can be made up by adding 5 kg of ferro silicon in place of scrap 1. 5 (50.0 1.80) 2.41 kg Extra silicon added = 100 So, the final mix of the charge is Pig iron 1 = 300 kg = 30 % Pig iron 2 = 200 kg = 20 % Pig iron 3 = 300 kg = 30 % Scrap 1 = 195 kg = 19.5 % Ferro silicon = 5 kg = 0.5 % In the previous example, we have proceeded with a trial and error method and have not considered the cost of various ...~~

~~Charge Calculations | Pig Iron | Iron~~

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iron no1) of the cupola charge = (weight of the total charge) \* (proportion or fraction of constituent in the charge) \* (fraction of element in the constituent) Pig iron # 1 : 1000 \* \* = 5.25 kg Pig iron # 2 : 1000 \* \* = 7.00 kg New scrap : 1000 \* \* = 10.20 kg Shop return : 1000 \* \* = 11.55 kg Total = 34.00 kg

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CHARGE CALCULATIONS It is very important in the foundry to know the final composition of the metal being obtained, so as to control it properly. The elements in the final analysis are essentially the sum total of what is contained in each of the charge ingredients, with some losses or pickup in the cupola.

### ~~Foundry Charge Calculation — jalan.jaga me.com~~

Gietech has setup several calculation programs for the foundry industry. They are Excel-sheet format and give a quick and good result. If you are interested, send me your data and I will use the program involved and send you the result (1 time free of charge).

### ~~CALCULATION SHEETS FOR FOUNDRY — Gietech~~

1. Calculate the total cost of CI (Cast Iron) cap shown in Fig. 5.1, from the following data : Cost of molten iron at cupola spout = Rs. 30 per kg Process scrap = 17 percent of net wt. of casting Process scrap return value = Rs. 5 per kg Administrative overhead charges = Rs. 2 per kg of metal poured.

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melting practice in place at the foundry shop, it's often a difficult task to achieve [6]. Different production data requires different charge calculation effort [7]. In the Induction Furnace, the quality of alloy steel produced largely depends on the charge mix, quality of scrap and additives and effective optimization model.

### ~~Development of charge calculation program for target steel ...~~

Foundry Projects Limited offer bespoke mechanical handling equipment for charging and feeding materials into furnaces. Nearly all applications are different and this is because the final solutions are mainly dependant on the following points: Type, size and variety of the charge materials being fed

### ~~Furnace Charging — Foundry Projects~~

Developed by foundry professionals & consultants with the help of several foundrymen; ERP is developed exclusively for foundry industry. Usually people take readymade software and then try to convert it according to the foundry industry. Statistics says that such softwares are not successful in the industry due to the complexity of the foundry ...

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This competence was significantly enhanced by investments and acquisitions of specialized foundry equipment suppliers. These include the GHW melting plant company, the engineering departments of the Bernsdorf foundry works and DÜKER iron works, and most recently Savelli Technologies and I.M.F. do Brasil.

### ~~Solutions for foundries | Kuettner Group~~

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