

Foundry Charge Calculation

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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

SOME IMPORTANT CALCULATIONS - Foundry Gate

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

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the sum total of what is contained in each of the charge ingredients, with some losses or pickup in the cupola.

Charge Calculations | Pig Iron | Iron

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

Charge Calculation for Cast Irons provides learners with the knowledge to more fully understand the materials, processes, and calculation steps involved in cast iron melting. Using THORS' highly visual and interactive Lightning Learning format, this course succinctly summarizes a variety of steps in charge calculation procedures that are sometimes difficult to grasp.

Castings: Charge Calculation for Cast Irons - THORS ...

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.

Production cost Estimation - SlideShare

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.

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Development of charge calculation program for target steel ...

There are, however, very few factors of the charge. which can be controlled at will. The blast furnace reduces. practically all of the iron present in the ore into the pig iron, and, therefore, if the ore contains 50 per cent of metallic iron. and the pig iron 90 per cent, it will take 0.90 £- 0.56 180.

Metallurgical Calculations: Calculation of the Charge of ...

The program is adjudged as a tool which can replace manual and spreadsheet calculation for charge analysis especially for experimental scrap melting purpose in the foundry workshop. It can also make melt corrections and final chemistry prediction for which there are no tools in the local foundry which is employed for such purpose.

Development of Scrap Charge Maximization Program Capable ...

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

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

DTIC

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charge mix, proper charge calculation and good scrap sorting and selection. An optimal and constant production process in secondary steel making is only possible by controlling the metallurgical ...

(PDF) Development of charge calculation program for target ...

Require kWh = 612.5 kWh/ ton x 50 ton. Require kWh = 30,625 kWh require to melting 50 of the aluminum scrap. Let assume Utility company charge \$ 0.108 per kWh for electricity (electricity cost will be different for your case) Monthly Electricity cost = 30,625 kWh x \$ 0.108 / kWh. Monthly Electricity cost = \$ 3307.5.

How to Calculate Electricity Cost for Melting Metal in ...

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 ...

iCast ERP Foundry Software Solutions | Foundry ERP ...

charge must first be pretreated to remove grease and oil. Scrap metals may be degreased with solvents, by centrifugation, or by preheating to combust the organics. Metal Melting The furnace charge includes metallics, fluxes and fuels. Composition of the charge depends upon specific metal characteristics required.

BACKGROUND REPORT AP-42 SECTION 12

Charge Calculation software for Cost optimization Easily identify the suitable low cost scrap route for manufacturing Guidance for usage of foundry returns to reduce inventory Time saving for cost

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calculation at the time of order inquiry

Foundry Software Solution - viperanmrcti

iCast Foundry Software comes with 4 (iCast Lyt, iCast Inv, iCast Pro & iCast Ent) variants. Please go through the module wise comparison below and choose the best suitable option for your foundry. Get Free Demo!

iCast Foundry ERP Software Variants | FRP | Foundry ...

ROUGH ESTIMATE CHARGE VERSUS OPTIMAL CHARGE At present, to calculate charges, most foundries employ systems based on a rough estimate, either using paper and calculator or a spreadsheet. In some...

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