

Casting Defect Analysis

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Casting Defect Analysis

A casting defect is an undesired irregularity in a metal casting process. Some defects can be tolerated while others can be repaired, otherwise they must be eliminated. They are broken down into five main categories: gas porosity, shrinkage defects, mold material defects, pouring metal defects, and metallurgical defects.

Casting defect - Wikipedia

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Gas porosity casting defects and causes. Gas porosity occurs when the metal traps gas (most often nitrogen, oxygen or hydrogen) during casting. When the casting cools and solidifies, bubbles form because the solid form of the metal cannot hold as much gas as the liquid form.

21 Casting Defects and How to Prevent Them in Your Products

CC-MASTER is the professional tool developed for the optimization of continuous casting process. Extensive material database based on reliable failure-limit analyses of slabs enables realistic and accurate simulation of continuous-casting process and defect evaluation in slabs.

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Castability is nothing but producing a casting with minimum cost, defects and time. This can be done by the high compatibility between the product requirement and process castability.

Castability - Metal Casting Suppliers, Casting ...

Die casting is a metal casting process that is characterized by forcing molten metal under high pressure into a mold cavity. The mold cavity is created using two hardened tool steel dies which have been machined into shape and work similarly to an injection mold during the process. Most die castings are made from non-ferrous metals, specifically zinc, copper, aluminium, magnesium, lead, pewter ...

Die casting - Wikipedia

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International Journal of Research in Advent Technology, Vol.2, No.3, March 2014 E-ISSN: 2321-9637
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Northern Stainless - Metal Casting Manufacturers

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Correct design of casting product is the important first step toward manufacturing defect free casting components. This article will talk about five casting design tips, which will be handy for the casting product design engineer.

Casting Design Guidelines for Casting Product Design Engineer

Direct Sen Bou Co., Ltd., located in Nishio city, Aichi Prefecture, develops, manufactures and sells die coating material for GDC and LPDC, coating material for casting tools, HPDC lubricant and die release coating, lubricant for cold and hot forging, coating for backflow prevention valve, die lubricant, equipments and devices including spray gun, intermittent spraying device, coating ...

Anything related to development, production and sale of ...

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Strip breakage was observed in between F5 and F6 stands of the finishing mill. The processing details of the low-C low-Mn slab under study are represented in Table 1. Visual observation of the stock piece around the breakage location is schematically represented in Fig. 1. A white stringer like defect was observed at location 1 as shown in Fig. 2.

Case study of severe strip breakage in rolling mill of ...

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