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Cast Irons

Common Metallurgical Defects In Grey

Whilst most foundries today recognise the types of defect found in grey cast irons, an appreciation of the causes and therefore cures is not always apparent. This paper will examine some of the common metallurgical defects,

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Metallurgical Defects in Grey Cast Irons

which have been found during examination of rejected castings in Elkem's Research Centre in Norway.

Common Metallurgical Defects in Grey Cast Irons

Factors Influencing the Recovery and Addition of Magnesium in Ductile Iron Ladle Treatment Processes.

1) Sulphur content in base iron. Sulphur has

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to be neutralised in order to increase the surface tension of the iron. High sulphur in the base ... 2) Oxygen content in base iron. Oxygen has to be ...

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Compaction of
Graphite Flakes Elkem
produces a

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comprehensive range of inoculants for the manufacture of grey cast irons. These are suited to most application methods, ladle inoculation, in-stream inoculation or by addition in a wire.

2. Common Metallurgical Defects in GJL

Common Metallurgical Defects in Gray Iron - Elkem Poster. August 23, 2018 August 24,

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Metallurgical defects, whilst normally a small part of a foundry's defect casting percentage, can be time consuming and expensive to classify and hence remedy. In this paper, some of the more common defects are described based on case studies from Elkem's Research Centre. In the examination of any defect, good metallographic facilities are

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necessary to provide
sufficient detail to
avoid ...

Common Metallurgical Defects in Grey Cast Iron | Casting ...

Common Metallurgical
Defect on Grey Iron
Hydrogen Blowhole.
Possible Causes : 1.
High moisture content
in charging or alloy
element (including
Rust) 2. High content
of Alumunium and

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Titanium. 3. High moisture content of molding sand. 4. Build-up of dead clay in greensand. 5. Wet mold or core coating6.

Common Metallurgical Defect on Grey Iron - Blogger

Common Metallurgical Defects in Ductile Iron
Elkem produces a complete range of nodularisers and inoculants for the

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treatment of ductile iron. MgFeSi alloys are available for applications such as sandwich treatments, tundish cover ladles and flow through systems. They are graded so as to be suited for different ladle sizes.

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Ductile Cast Iron
Causes and Cures
C.M.Ecob Customer
Services Manager,
Elkem AS, Foundry
Products Division

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cast iron by ...**

Casting Defects - Sand
Mold, Metal Casting.
Introducing various
metal casting defects
with many pictures by

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Metallurgical
Defects of
Cast Irons

Dandong Foundry in China. These are the common sand casting defects on the surface and inside of cast iron and cast steel parts. 1.

Blowhole and Pinhole

This is a kind of cavities defect, which is also divided into pinhole and subsurface blowhole.

Casting Defects - Sand Mold, Metal Casting

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Metallurgical Defects in
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cast iron by ...**

Defects introduced
during fabrication may
arise from either the

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carry over of defects from earlier stages of processing resulting in the concentration of stresses, a reduction in the load bearing section of the product or changes in the metallurgical structure of the material so that it does not have the properties that the designer intended.

Defects Introduced into Metals During Fabrication and

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Metallurgical Defects.

Metallurgical defects show up when there are problems in the metal of a casting. There are three types, which include: Slag Inclusion. Slag inclusion happens when metal isn't properly cleared of slag before being poured. It simply means the finished casting will have impurities or foreign material

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embedded in it.

Types of Casting Defects and How to Prevent Them

It is very important to identify the type of defect so that you can decide what you need to do with them. More often, recognizing the defect correctly can help the quality control department to identify the root cause of the defect and find ways to fix them. Here are the

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common types of defects that may be seen in casting products.

How to identify casting defects? | cast iron products and ...

However, the metallurgical defects in SLM severely limits their applications. In this work, SLM of a Li and Zr modified Al-Cu-Mg alloy (Al-4Cu-1Li-0.4Mg-0.5Zr) was

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studied with emphasis on its microstructure, metallurgical defects and hardness. The results show that microstructure is composed of fine equiaxed crystals (0.5–1 μm) and ...

Microstructure, metallurgical defects and hardness of Al ...

Common defects of aluminum castings;
Common defects of

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aluminum castings ...
alloys with large
stresses and thermal
expansion coefficients
are cooled too much.
Or when there are
other metallurgical
defects. ... In the as-
cast state, the fracture
is gray, and the light
yellow is gray-white,
light yellow or gray-
black after heat
treatment. It is ...

Common defects of aluminum castings -

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Dongrun Sand

Casting In Grey

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Defects in Ductile Iron

Compacted Graphite

Exploded Graphite

Chunky Graphite Spiky

Graphite Potential

Causes; ... products for

grey, compacted and

ductile cast irons.

Ultraseed® inoculant is

designed for pure Mg

produced ductile iron,

irons of low oxygen

and

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