Grey Cast Iron Composition Casting Quality

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Grey Cast Iron Composition

Grey Cast Iron (Gray iron) is so called because of the colour of the fracture face. It contains 1.5-4.3% carbon and 0.3-5% silicon plus manganese, sulphur and phosphorus. It is brittle with low tensile strength, but is easy to cast. The all data in this documents is referred to Chinese standard of GB/T 9439-1988.

grey cast iron composition - Sand Casting, Investment ...

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Grey Cast Iron Property and Chemical Composition | Sand ...

Gray iron, or grey cast iron, is a type of cast iron that has a graphitic microstructure. It is named after the gray color of the fracture it forms, which is due to the presence of graphite. It is the most common cast iron and the most widely used cast material based on weight. It is used for housings where the stiffness of the component is more important than its tensile strength, such as ...

Gray iron - Wikipedia

Just like all cast iron parts, the primary component of Grey Iron is going to be the iron (no surprise there, right?). Just like most

other cast irons, it also has 2.5–4.0% carbon and 1–3% silicon.

What is Grey Cast Iron? - Willman Industries

Grey Cast Iron (Gray iron) is so called because of the color of the fracture face. It contains 1.5-4.3% carbon and 0.3-5% silicon plus manganese, sulphur and phosphorus. It is brittle with low tensile strength, but is easy to cast.

Grey Cast Iron Composition and Property

Composition of Grey Cast Iron Grey Cast Iron is one of the most widely used types of cast iron. Cast Iron is mainly manufactured by melting pig iron and then pouring it into the cast or mould of desired shapes and sizes. The widespread use of the Grey Cast Iron can mainly be attributed to its cost efficiency and easy machinability.

Composition of Grey Cast Iron | Flocast

The nature of cast iron, white or grey can be changed by varying both carbon and silicon, and the rate of cooling. For high strengths, carbon is kept on lower side (to have low volume of graphite) and silicon on higher side (keeping a balance to get good machinability).

Cast Irons: Composition and Properties | Alloys | Iron ...

Grey cast iron, or gray iron, has a dark grey fracture colour due to a graphitic microstructure. The presence of graphite flakes is due to the addition of silicon, which acts to stabilise carbon in the form of graphite as opposed to iron carbide.

Cast Iron: Properties, Processing and Applications - Matmatch

ASTM A48 Class 30 (Related Standards – DIN GG20, BS 1452 Grade 220) is a gray cast iron. Gray iron consists of graphite flakes in a metallic matrix. When fractured, it is grayish in colour

– hence the name (specifically, a fracture will follow along the graphite flakes which are gray).

Gray Iron ASTM A48 Class 30 Data Sheet | Penticton Foundry

Gray iron is characterized by the flake shape of the graphite molecules in the metal. When the metal is fractured, the break occurs along the graphite flakes, which gives it the gray color on the fractured metal's surface. The name gray iron comes from this characteristic.

Cast Iron Types | Metal Casting Resources

Grey cast iron is characterised by its graphitic microstructure, which causes fractures of the material to have a grey appearance. It is the most commonly used cast iron and the most widely used cast material based on weight. Most cast irons have a chemical composition of 2.5–4.0% carbon, 1–3% silicon,

and the remainder iron.

Cast iron - Wikipedia

Gray cast iron is a broad term used for a number of cast irons whose microstructures are characterized by the presence of flake graphite in the ferrous matrix. Such castings often contain 2.5% to 4% carbon, 1% to 3% silicon, and some additions of manganese ranging from 0.1% to 1.2%. This is one of the most widely used alloys of iron.

Grey Cast Iron - an overview | ScienceDirect Topics

Cast iron is a ferrous alloy which has more than 2% carbon in it. Though it can have any percentage of carbon between 2% to 6.67%, but practically it is in between 2% to 4% only. It has got its name due to its excellent casting qualities. It is hard and brittle.

Cast Iron | Types, Advantages, Disadvantages, Uses, Properties

Microscopically, all gray irons contain flake graphite dispersed in a silicon-iron matrix. How much graphite is present, the length of the flakes and how they are distributed in the matrix directly influence the properties of the iron. The basic strength and hardness of the iron is provided by the metallic matrix in which the graphite occurs.

Mechanical Properties of Gray Iron

Silicon is important to making grey iron as opposed to white cast iron, because silicon is a graphite stabilizing element in cast iron, which means it helps the alloy produce graphite instead of iron carbides; at 3% silicon almost no carbon is held in chemical combination with the iron. The graphite takes on the shape of a three-dimensional flake.

Grey Cast Iron EN-GJL

Cast iron is an alloy that composed of 95 wt% iron, 2.1–4 wt% carbon and 1–3 wt% silicon (Shaha et al., 2010a). It has wide range of properties depending on composition and cooling rate on casting. There are wide range of applications of the cast iron especially in pipes, machines and automotive industries, such as engine components.

Cast Iron - an overview | ScienceDirect Topics

V-2 (Class 40) gray iron features a tensile strength of 40,000 psi with a compression strength of 150,000 psi. Class 40 gray iron's hardness ranges from 187 to 269 bhn. The microstructure is essentially pearlitic. It's used widely for bearing and bushing applications in the hydraulics industry.

Class 40 Gray Iron Supplier | Material Properties ...

Subcritical Annealing. ASTM Specification. A-48. Versa-Bar V-6

class 35 gray iron is a high-grade continuous cast iron suitable for a wide range of applications. It is the most metallurgically superior steel alternative available. With a hardness rating over 200, it is more difficult to drill and machine than lower-rated irons.