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Grey Cast Iron Composition | Cast Iron | Ultimate Tensile ...

In this video you will learn Gray cast iron, its composition, properties and applications.

Class 40 Gray Iron Supplier | Material Properties ...

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Grey Cast Iron Composition and Property
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.

Gray iron - Wikipedia

Grey Cast Iron Composition and

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Property. 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 Property and

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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

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stiffness of the component is more important than its tensile strength, such as internal combustion engine cylinder blocks, pump housings, valve bodies, electrical boxes, and decorative c

Cast iron - Wikipedia

This type of cast iron is called grey cast iron, and its main characteristic is the

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grey-colored carbon flakes in its composition. To produce cast iron, iron ore is deoxidized in a blast furnace. When the ore is melted, it is poured into molds. It cools and forms a scale on the surface that acts as a protective covering for the metal. However, cast iron is naturally prone to rusting because of its high iron composition.

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Grey Cast Iron EN-JL1040 and EN-GJL-250

Iron castings in the higher strength grades require close control of their processing as well as their composition. The majority of the carbon in gray iron is present as graphite which has little strength or hardness. Increasing

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amounts of graphite result from increasing the total carbon content of the iron.

Grey Cast Iron Composition and Property - metals-china.com

The Composition Of Grey Cast Iron in terms of all its constituent elements can be explained as follows: Carbon (up to

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4%): The carbon content of the grey cast iron later on gets converted... Silicon (up to 3%): Silicon is mainly added for the de-oxidation process... Manganese (0.8%): Manganese ...

Composition of Grey Cast Iron | Flocast

The popularity of grey cast iron

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components (gray iron castings) is because grey iron is one of the cheapest types of iron castings to produce. It has acceptable ductility, tensile strength, yield strength, and impact resistance for most applications.

Cast Iron Properties, Classification, Chemical Composition ...

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White cast iron contains between 0.1 and 0.5 percent silicon, while grey cast iron has between 0.5 and 3.5 percent. References "A Dictionary of Chemistry and the Allied Branches of Other Sciences, Volume 3"; Watts, Henry

What is Grey Cast Iron? - Willman Industries

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1. Composition of Cast Irons: (a) Carbon: As the carbon content increases, the melting point (as compared to steels) is lowered to between 1200° to 1140°C , and thus, carbon acts as a graphitiser. But, more the graphite formed, lower are the mechanical properties.

ASTM A48 CLASS 20 - Gray Cast Iron

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Our V-2 Class 40 Continuous Cast Gray Iron is a Better Alternative. 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.

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grey cast iron composition - Casting Quality

Grey Cast Iron Property and Chemical Composition. Grey Cast Iron (Gray iron castings) 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, sulfur and phosphorus. It is brittle with low tensile strength, but is

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easy to cast.

Difference Between Grey & White Cast Iron | Sciencing

ASTM A48 Class 20 is a gray cast iron material grade of USA. This grade is equivalent with grey iron HT150, FC150, GG15, FGL150, T150, O150 in China and other countries. This grade is equivalent

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with grey iron HT150, FC150, GG15, FGL150, T150, O150 in China and other countries.

Grey Cast Iron Composition

Grey Cast Iron Composition and Property
Grey Cast Iron (Gray iron) is so called because of the colour of the fracture

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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.

Cast Iron Types | Metal Casting Resources

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Grey cast iron is grey in color which is due to the carbon being principally in the form of graphite (C in free form in iron). It contains: chemical composition of grey cast iron

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

Grey cast iron is characterised by its

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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.

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Gray cast iron explained

Grey Cast Iron EN-JL1040 and EN-GJL-250 These are the chemical composition, mechanical properties and equivalent grades of cast iron EN-JL1040 (EN-GJL-250), including its Tensile Strength, Elongation, Proof strength and Hardness.

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What Is the Composition of Cast Iron? | Reference.com

Cast iron design details are produced by smelting metal and pouring it into a mold. Gray iron. 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

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the gray color on the fractured metal's surface.

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