

Free epub Common metallurgical defects in grey cast irons [PDF]

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 1 it is the most common cast iron and the most widely used cast material based on weight grey cast iron a k a gray iron is a type of iron found in castings known for its grey color and appearance caused by graphite fractures in the material specifically what makes grey iron grey is the graphite flake structure from the carbon created during cooling the casting learn more gray cast iron has less tensile strength and shock resistance than steel but its compressive strength is comparable to low and medium carbon steel gray cast iron has good thermal conductivity and specific heat capacity therefore it is often used in cookware and brake rotors grey cast iron is characterized 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 to 4.0 carbon 1 to 3 silicon and the remainder is iron gray cast iron is a broad term used for a number of cast irons whose microstructure is characterized by the presence of flake graphite in the ferrous matrix such castings often contain 2.5-4 carbon 1-3 silicon and some additions of manganese ranging from 0.1 to 1.2 the alloying elements determine the form in which its carbon appears white cast iron has its carbon combined into an iron carbide named cementite which is very hard but brittle as it allows cracks to pass straight through grey cast iron has graphite flakes which deflect a passing crack and initiate countless new cracks as the material break

gray iron wikipedia

Mar 29 2024

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