

Title (en)

ALLOY AND PROCESS FOR PRODUCING DUCTILE AND COMPACTED GRAPHITE CAST IRONS

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Application

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Priority

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Abstract (en)

[origin: EP0142585A1] This invention relates to an alloy composition and to the method of treating molten cast iron with such alloy to produce ductile and compacted graphite cast irons. The alloy is a predominantly iron alloy having the essential elements by weight of from about 0.1 to about 10.0% silicon, from about 0.5 to about 4.0% magnesium, up to about 10.0% nickel and optionally from up to about 2.0% cerium and/or other rare earth elements. Small amounts of calcium, barium or strontium and trace elements customarily found in conventional raw materials used in producing the alloy may also be present. The characteristics of the alloy make it possible to establish a ready supply of treated molten iron in the foundry in holding vessels with a selected chemical composition at a given temperature. It also makes possible semi-continuous casting of ductile and compacted graphite cast irons.

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IPC 8 full level

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