

NF EN 1561

December 2011

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European standard

French standard

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December 2011

Classification index: **A 32-101**

ICS: 77.140.80

Founding

Grey cast irons

F : Fonderie — Fontes à graphite lamellaire

D : Gießereiwesen — Gusseisen mit Lamellengraphit

French standard approved

by decision of the Director General of AFNOR on November 30, 2011 taking effect on December 30, 2011.

Replaces the approved standard NF EN 1561, dated October 1997.

Correspondence

The European standard EN 1561:2011 has the status of French standard.

Analysis

This document specifies the properties of unalloyed and low-alloyed grey cast irons used for castings, which have been manufactured in sand moulds or in moulds with comparable thermal behaviour. The properties that can be used to characterize grey cast irons are either the tensile strength of cast samples, or the hardness measured on the castings or on a cast-on knob.

Six grades of grey cast iron are specified by a classification based on tensile strength measured on machined test pieces.

Six other grades of grey cast iron are specified by a classification based on Brinell hardness.

Descriptors

Technical International Thesaurus: foundry engineering, cast iron, lamellar cast iron, designation, thickness, tensile strength, brinell hardness, tension tests, hardness tests, classifications.

Modifications

With respect to the replaced document, explanations concerning the combination of the determinant wall thickness and the tensile strength, as well as a new digital designation system for cast irons, are given in the introduction.

In addition, new annexes have been added.

Corrections

