

JIS

JAPANESE INDUSTRIAL STANDARD

Grey iron castings

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1. Scope This Japanese Industrial Standard specifies the iron castings having flake graphite (hereafter referred to as "iron castings").

Remarks: The cited standards and a corresponding International standard to this Standard are given in Attached Table 1.

2. Definitions The principal terms used in this Standard are as defined in the following:

- (1) separately cast test sample A specimen poured separately under the same conditions as the iron casting for each one batch by using generally the comparable mould thereto.
- (2) cast-on test sample A specimen generally poured into a comparable mould attached at a specified position of the mould for the iron casting.
- (3) test sample cut from the casting A specimen taken directly from the iron casting at a specified position.

3. Symbol of grade The symbol of grade of the iron castings shall be as given in Table 1.

Table 1. Symbol of grade

Symbol of grade
FC100
FC150
FC200
FC250
FC300
FC350

4. Chemical composition The iron castings, if particularly required, shall be subjected to the test of 9.4, and the chemical composition shall be as agreed between the purchaser and supplier.

5. Mechanical properties The iron castings shall be subjected to the test of 9.5, and the tensile strength and hardness of the separately cast test sample shall conform to Table 2. However, the hardness shall apply in the case where particularly required by the purchaser.

Further, the tensile strengths of the cast-on test sample and the test sample cut from the casting are given in Informative reference Tables 1 and 2, respectively, for informative reference.