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British Standard Specification for Flake graphite cast iron

Fonte à graphite lamellaire — Spécifications

Lamellengußeisen

British Standards Institution

Foreword

This British Standard was prepared under the direction of the Iron and Steel Standards Policy Committee and supersedes BS 1452 : 1977 which is withdrawn.

BS 1452 specifies the classification of flake graphite cast iron according to the minimum tensile strength of the material in test pieces machined from separately cast test samples. The requirements in the 1977 edition concerning castings made from the same material are not included in this edition.

The properties of flake graphite (grey) cast iron depend on the amount and form of graphite and on the matrix structure. The structure may be controlled by the production conditions, chemical composition, solidification time and cooling rate in the solid state.

As flake graphite cast iron is section-sensitive, information is included in appendix B on the provision of cast-on test samples and samples from castings. Expected tensile strengths are given for these but the tensile strengths actually achieved in a casting will depend on the complexity of its design.

The preferred grades of flake graphite cast iron in this standard are those which align with ISO 185 but grades 180 and 220 have been retained for an interim period. Grades 180 and 220 will be reviewed at the next revision.

Compliance with a British Standard does not of itself confer immunity from legal obligations.