



INTERNATIONAL STANDARD ISO 945-1:2008
TECHNICAL CORRIGENDUM 1

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Microstructure of cast irons —
Part 1:
Graphite classification by visual analysis

TECHNICAL CORRIGENDUM 1

Microstructure des fontes —

Partie 1: Classification du graphite par analyse visuelle

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO 945-1:2008 was prepared by Technical Committee ISO/TC 25, *Cast irons and pig irons*.

Page 17, Annex C

Replace Table C.1 with the following table.

Table C.1 — Graphite forms (see Figure 1 and Annex A)

Form	Description of the form	Main spatial characteristics	Occurrence	Relevant material standard
I	Lamellar (flake) graphite	Interconnected particles within eutectic cells; lamellar (flake) graphite with sharp ends	Principal form in grey cast iron Austenitic cast iron with lamellar/flake graphite Can occur in the rim zone of other cast-iron materials	ISO 185 ISO 2892
II	Crab graphite	Aggregate of graphite flakes	Can occur in rapidly cooled hypereutectic grey cast irons (see Annex B and Table C.2) Can also occur in segregation areas of thick-walled spheroidal-graphite cast-iron castings	ISO 185
III	Compacted (vermicular) graphite	Usually interconnected particles within eutectic cells; worm-like appearance with rounded ends	Principal form in compacted-graphite cast irons Can occur in spheroidal graphite cast irons	ISO 16112
IV	Temper carbon	Isolated particles	Principal form in malleable cast irons	ISO 5922
	Irregular spheroidal graphite ^a		Can occur on spheroidal-graphite cast iron	
V	Slightly irregular spheroidal graphite ^a	Isolated particles	Principal form in thick-walled castings made of spheroidal-graphite cast irons Occurs to a specified extent in compacted-graphite cast irons Can occur in malleable cast irons	ISO 1083 ISO 17804 ISO 2892
VI	Spheroidal graphite ^a	Isolated particles	Principal form in castings made of spheroidal-graphite cast irons Occurs to a specified extent in compacted-graphite cast irons	ISO 1083 ISO 17804 ISO 2892

^a Spheroidal graphite is sometimes referred to as nodular graphite.