

1. Record Nr.	UNINA9911004760503321
Titolo	Foseco ferrous foundryman's handbook // edited by John R. Brown
Pubbl/distr/stampa	Boston, : Butterworth Heinemann, 2000
ISBN	1-281-07728-3 9786611077280 0-08-050679-8
Edizione	[11th ed.]
Descrizione fisica	1 online resource (373 p.)
Altri autori (Persone)	BrownJohn R
Disciplina	672.2
Soggetti	Founding Iron founding
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Front Cover; Foseco Ferrous Foundryman's Handbook; Copyright Page; Contents; Preface; Acknowledgements; Chapter 1. Tables and general data; SI units and their relation to other units; SI, metric, non-SI and non-metric conversions; Conversion table of stress values; Areas and volumes of circles, spheres, cylinders etc.; The physical properties of metals; Densities of casting alloys; Approximate bulk densities of common materials; Patternmakers' contraction allowances; Volume shrinkage of principal casting alloys; Comparison of sieve sizes; Calculation of average grain size Calculation of AFS grain fineness numberRecommended standard colours for patterns; Dust control in foundries; Buoyancy forces on cores; Opening forces on moulds; Dimensional tolerances and consistency achieved in castings; Chapter 2. Types of cast iron; Introduction; Physical properties of cast irons; Iron casting processes; Chapter 3. Grey cast iron; Specifications; Relationship between composition, strength and structure of grey cast iron; Applications of grey iron castings; The production of grey irons; Chapter 4. Melting cast iron; Introduction; Cupola melting; Electric melting Shop floor control of metal compositionChapter 5. Inoculation of grey cast iron; Introduction; Ladle inoculation; Late stream inoculation; Mould inoculation; Chapter 6. Ductile iron; Production of ductile iron;

Melting ductile iron base; Cupola melting and duplexing; Induction furnace melting; Use of the tundish cover ladle; Sandwich treatment; NODULANT; Pure magnesium converter process; Cored wire treatment; In-the-mould treatment; Inhibiting elements; Inoculation and fading; Specifications for ductile cast iron; Heat treatment of ductile iron; Casting ductile iron; Compacted graphite irons  
Chapter 7. Malleable cast ironIntroduction; Whiteheart malleable; Blackheart malleable iron; Chapter 8. Special purpose cast irons; Heat resisting alloys; Corrosion resistant cast irons; Wear resistant cast irons; Chapter 9. Types of steel castings; Introduction; Specifications for steel castings; Types of steel castings; Carbon steels; Low alloy and medium alloy steels; Austenitic manganese steel; High alloy steels; Duplex steels; Physical properties of steels; Selection of suitable steel for casting; Chapter 10. Melting and treatment of steel for casting; Arc furnace melting  
Induction furnace meltingAOD refining; Melting and casting quality; Chapter 11. Molten metal handling; Iron foundries; Metal handling systems; Ladle lining; KALTEK ladle lining system for iron foundries; KALTEK insulating lining system for automatic pouring boxes; Casting defects due to poor ladle maintenance; Molten metal handling in steel foundries; Ladle practice; The KALTEK ladle lining system; Pouring temperature for steels; Chapter 12. Sands and green sand; Silica sand; Measurement of sand properties; Non-silica sands; Green sand; Parting agents; Special moulding materials, LUTRON  
Green sand moulding machines

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#### Sommario/riassunto

The Foseco Ferrous Foundryman's Handbook is a practical reference book for all those concerned with making castings in any of the commonly used alloys, by any of the usual moulding methods. International SI units are used throughout, but in almost all cases conversions to the more familiar Metric and Imperial units are given. Wherever possible, Casting Alloy Specifications include equivalent specifications for several countries as well as international specifications. Individual chapters cover the casting of light alloys, copper-based alloys, all types of cast-iron and steel. For each

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