

# ISO 21988:2006-07 (E)

## Abrasion-resistant cast irons - Classification

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	2
4	Designation .....	2
5	Order information .....	2
6	Manufacture .....	2
6.1	General .....	2
6.2	Heat treatment .....	3
7	Requirements .....	3
7.1	Chemical composition .....	3
7.2	Brinell hardness .....	3
7.3	Microstructure .....	3
8	Sampling .....	4
8.1	Frequency of sampling for chemical analysis .....	4
8.2	Number and frequency of Brinell hardness tests .....	4
9	Testing .....	4
9.1	Chemical analysis .....	4
9.2	Hardness test .....	4
9.3	Microstructure sample .....	5
10	Retests .....	5
10.1	Need for retests .....	5
10.2	Test validity .....	5
10.3	Nonconforming test results .....	5
10.4	Heat treatment of castings .....	5
Annex A (informative) Heat treatment .....		8
Annex B (informative) Conversion between Brinell, Vickers and Rockwell C hardness .....		10
Annex C (informative) Relationship between casting thickness and chemical composition for nickel-chromium cast irons .....		11
Annex D (informative) Typical microstructures of abrasion-resistant cast iron .....		12
Annex E (informative) Cross references to other standards .....		13
Bibliography .....		14