

ISO 16220:2017-04 (E)

Magnesium and magnesium alloys - Magnesium alloy ingots and castings

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Material designation	1
4.1	General	1
4.2	Temper designation	1
4.3	Casting process designation	2
4.4	Designation for ordering	2
5	Requirements	2
5.1	Chemical composition	2
5.2	Mechanical properties of castings	2
5.3	Frequency of testing	3
5.4	General condition of the product	3
6	Sampling	3
7	Test pieces for mechanical properties	3
7.1	Design	3
7.2	Test pieces obtained from separately cast samples	3
7.2.1	Sand-cast samples	3
7.2.2	Permanent-mould cast samples	3
7.2.3	Pressure-die cast samples	3
7.2.4	Investment cast samples	4
7.3	Test pieces cut from castings	4
8	Test methods	4
8.1	Tensile test	4
8.2	Brinell hardness test	4
9	Retests	4
10	Rounding of numbers	4
Annex A (informative) List of ISO and equivalent international alloy designations		14
Annex B (informative) Additional information regarding the manganese and iron content		16
Annex C (informative) Additional information regarding maximum content of alloying elements and impurities in ingots and castings		17
Bibliography		18