

ISO 8251:2011-02 (E)

Anodizing of aluminium and its alloys - Measurement of abrasion resistance of anodic oxidation coatings

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Characteristics of abrasion tests	2
4.1	Abrasive-wheel-wear test	2
4.2	Abrasive jet test	2
4.3	Falling sand abrasion test	2
5	Abrasive-wheel-wear test	3
5.1	Principle	3
5.2	Apparatus	3
5.3	Procedure	3
5.4	Calculation of results	5
6	Abrasive jet test	8
6.1	Principle	8
6.2	Apparatus	8
6.3	Procedure	9
6.4	Calculation of results	11
7	Falling sand abrasion test	12
7.1	Principle	12
7.2	Apparatus	12
7.3	Test specimen	13
7.4	Test environment	13
7.5	Test conditions	13
7.6	Test procedure	13
7.7	Expression of results	14
8	Test report	15
Annex A (normative)	Preparation of standard specimen	16
Annex B (informative)	Depth survey of abrasion resistance	18
Annex C (informative)	Design of abrasive-wheel-wear test apparatus	21
Annex D (informative)	Design of abrasive jet test apparatus	22
Annex E (informative)	Design of falling sand abrasion test apparatus	26
Bibliography		27