

ISO 14627:2012-07 (E)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for fracture resistance of silicon nitride materials for rolling bearing balls at room temperature by indentation fracture (IF) method

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Apparatus	2
5.1	Testing machine	2
5.2	Indenter	2
5.3	Verification by standard reference materials	3
6	Test specimens	3
6.1	General	3
6.2	Thickness	3
6.3	Surface finish	3
7	Procedure	3
7.1	Specimen placement	3
7.2	Specimen leveling	3
7.3	Clean the indenter	3
7.4	Application of test load	3
7.5	Acceptability of indentations	4
7.6	Number of indentations	4
7.7	Measurement of indentation size	5
7.8	Measurement of crack size	5
8	Calculation	5
9	Test report	6
Bibliography		8