

DIN EN ISO 14627:2026-03 (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 (ISO 14627:2012)

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