ISO 22917:2016-02 (E)

Precision superabrasives - Limit deviations and run-out tolerances for grinding wheels with diamond or cubic boron nitride

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Limit deviations and run-out tolerance abbreviations 2

5 Straight, recessed, tapered and hubbed grinding wheels 3
5.1 Grinding wheels for peripheral grinding 3
5.1.1 Designations 3
5.1.2 Limit deviations and run-out tolerances for grinding wheels for peripheral grinding 4
5.2 Grinding wheels for face grinding 8
5.2.1 Designations 8
5.2.2 Limit deviations and run-out tolerances for grinding wheels for face grinding 10

6 Mounted points 13
6.1 Designation 13
6.2 Limit deviations and circular run-out tolerances 14
6.2.1 Limit deviations of the outside diameter, TD, of the thickness, TT, of the depth of superabrasive section, TX, and circular run-out tolerance, axial, TRL 14
6.2.2 Limit deviations of the spindle diameter, TSd, and of the reduced diameter of spindle, TS1 14
6.2.3 Limit deviations of the overall length, TL, and of the reduced length of spindle, TL4 14

7 Superabrasives with metal core for hand-held grinding 15
7.1 Designation 15
7.2 Limit deviations and run-out tolerances 15
7.2.1 Limit deviations of the outside diameter, TD, of the overall thickness, TT, circular run-out tolerance, axial, TPL, and circular run-out tolerance, radial, TRL 15
7.2.2 Limit deviations of the bore diameter, TH 15
7.2.3 Limit deviations of the depth of superabrasive section, TX 16
7.2.4 Limit deviations of the rim width, TW 16
7.2.5 Limit deviations of the thickness at bore, TE 16
7.2.6 Limit deviations of the contact surface diameter, TJ, and of the recess diameter, TK 17