DIN EN ISO 8062-3:2023-05 (E)

Geometrical product specifications (GPS) - Dimensional and geometrical tolerances for moulded parts - Part 3: General dimensional and geometrical tolerances and machining allowances for castings using ± tolerances for indicated dimensions (ISO 8062-3:2023)

Contents

Page

European foreword ... **3**

Foreword ... **4**

Introduction ... **6**

1 Scope ... **7**

2 Normative references ... **7**

3 Terms and definitions ... **8**

4 Abbreviated terms ... **9**

5 Taper ... **9**

6 Draft angles (taper) ... **10**

7 Tolerance grades ... **13**
7.1 General ... 13
7.2 Dimensional casting tolerance grades (DCTG) ... 13
7.3 Geometrical casting tolerance grades (GCTG) ... 15
7.3.1 General ... 15
7.3.2 Nominal dimensions ... 15
7.3.3 Datums ... 15

8 Surface mismatch (SMI) ... **18**

9 Wall thickness ... **18**

10 Required machining allowances (RMA) ... **18**
10.1 General ... 18
10.2 Required machining allowance grades (RMAG) ... 19

11 Indication on drawings ... **19**
11.1 Indication of general DCTs ... 19
11.2 Indication of machining allowances ... 20
11.3 Indication of geometrical casting tolerances (GCTs) ... 20

12 Rejection ... **21**

Annex A (informative) **Dimensional and geometrical tolerances for castings** ... **22**

Annex B (informative) **Required machining allowance grades (RMAG)** ... **25**

Annex C (informative) **Concept of general tolerancing of characteristics** ... **26**

Annex D (informative) **Datums for general geometrical tolerances** ... **28**

Annex E (informative) **Application of general geometrical tolerances for castings** ... **32**

Annex F (informative) **Relation to the GPS matrix model** ... **39**

Bibliography ... **40**