

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	2
3	Terms, definitions and symbols	2
3.1	Fundamental terms and symbols.....	2
3.2	General dimensions.....	6
3.3	Pitch deviations.....	9
3.4	Profile deviations.....	10
3.5	Helix deviations.....	14
4	Application of the ISO flank tolerance classification system	17
4.1	General.....	17
4.2	Geometrical parameters to be verified.....	17
4.3	Equipment verification and uncertainty.....	19
4.4	Considerations for elemental measurements.....	19
4.5	Specification of gear flank tolerance requirements.....	24
4.6	Acceptance and evaluation criteria.....	25
4.7	Presentation of data.....	25
5	Tolerance values	25
5.1	General.....	25
5.2	Use of formulae.....	26
5.3	Tolerance formulae.....	26
Annex A (normative) Zone-based tolerance evaluation		28
Annex B (normative) Evaluation of profile and helix deviations using the second order analysis method		32
Annex C (informative) Profile and helix data filtering		35
Annex D (informative) Sector pitch deviation		37
Annex E (normative) Allowable values of runout		40
Annex F (informative) Single flank composite testing		43
Annex G (informative) Adjacent pitch difference, f_u		48
Bibliography		50