DIN EN ISO 8980-1:2017-12 (E)

Ophthalmic optics - Uncut finished spectacle lenses - Part 1: Specifications for single-vision and multifocal lenses (ISO 8980-1:2017)

Contents

Page

European foreword 3

Foreword 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Classification 5

5 Requirements 6
5.1 Reference temperature 6
5.2 Optical requirements 6
5.2.1 General 6
5.2.2 Back vertex power 6
5.2.3 Direction of the cylinder axis 6
5.2.4 Addition power for multifocal lenses 7
5.2.5 Prismatic power 7
5.2.6 Prism base setting 8
5.3 Geometrical requirements 8
5.3.1 Requirements for size and thickness 8
5.3.2 Requirements on segment dimensions for multifocal lenses 9
5.4 Orientation requirement for polarizing lenses 9

6 Verification methods 9
6.1 General 9
6.2 Verification method for back vertex power 9
6.3 Verification method for the direction of the cylinder axis 9
6.3.1 General 9
6.3.2 Single-vision lenses 9
6.3.3 Multifocal lenses 9
6.4 Verification method for prismatic power 10
6.4.1 General 10
6.4.2 Single-vision lenses (excluding position-specific single-vision lenses) 10
6.4.3 Position-specific single-vision lenses 10
6.4.4 Multifocal lenses 10
6.5 Verification method for addition power 10
6.5.1 General 10
6.5.2 Procedure 10
6.6 Verification method for segment size 11
6.7 Inspection method for material and surface quality 11

7 Marking requirements for single-vision lenses 11
7.1 Position-specific single-vision lenses 11
7.2 Polarizing lenses 11

8 Identification and information 12

9 Reference to this document 12

Annex A (informative) Material and surface quality 13

Bibliography 14