

ISO 12757-1:2017-12 (E)

Ball point pens and refills - Part 1: General use

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements	2
4.1 Tip classification	2
4.2 Shapes and dimensions of refills	2
4.3 Performance	4
4.3.1 Writing performance	4
4.3.2 Strike through	4
4.3.3 Drying time	4
4.3.4 Reproducibility	4
4.3.5 Water resistance	4
4.3.6 Light resistance	4
4.3.7 Shelf life	4
5 Test equipment and accessories	4
5.1 Write test machine	4
5.2 Performance testing paper	4
5.3 Eraser	5
5.4 Reproducibility apparatus	5
5.5 Light test apparatus	5
6 Testing	5
6.1 Sampling	5
6.2 Climatic conditions for testing	6
6.3 Procedure	6
6.3.1 Writing performance test	6
6.3.2 Strike through test	6
6.3.3 Drying time test	6
6.3.4 Reproducibility test	6
6.3.5 Water resistance test	6
6.3.6 Light resistance test	6
6.3.7 Shelf life test	7
7 Designation and marking	7
7.1 Designation	7
7.2 Marking	7
8 Test report	7
Bibliography	9