ISO 6893:2024-04 (E)

Jewellery and precious metals - Inspection of batches of small diamonds - Terminology, classification and test methods

Contents

Page

Foreword ..... **v**

Introduction ..... **vi**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 General **3**
4.1 Batch specifications and characteristics 3
4.2 Inspection 3

5 Authentication **4**

6 Sieving **4**
6.1 General 4
6.2 Estimating the total mass of a small diamond batch by sieving and counting 4
6.3 Estimating a batch size by sieving and weighing 4
6.4 Sieving small diamonds 4
6.4.1 Method 4
6.4.2 Using sieving plates in a correct order 5
6.4.3 Maximum size of a sieved batch 5
6.4.4 Preventing damages of sieved diamonds 5
6.4.5 Regular control of sieve plates accuracy 6

7 Mass of a batch **6**
7.1 Testing 6
7.2 Expression of the weighed mass of a batch 6

8 Measurements **6**
8.1 Measuring small diamonds 6
8.2 Traditional measurements of single small diamonds 6
8.3 Measuring a small diamond with a profile projector 6
8.4 Measuring automatically dimensions of small diamonds in batch 7
8.5 Description of dimension for a batch 7

9 Batch size **7**
9.1 Testing 7
9.2 Estimation 7
9.2.1 Estimation by sampling 7
9.2.2 Estimation using mass and diameter 8
9.3 Description 8

10 Sampling **8**
10.1 Inspecting a batch by sampling 8
10.1.1 General conditions 8
10.1.2 Drawing diamond samples from a batch 8
10.2 Sampling plans for the inspection of a batch of small diamonds 9
10.3 Inspection plan and multiple criteria 9

11 Cut **9**
11.1 Description of cut in a homogenous batch 9
11.2 Description of cut in an inhomogenous batch 9
11.3 Shape 9
11.4 Proportions 9

11.4.1 Testing the proportions of small diamonds 9
11.4.2 Description of proportion grades 10
11.5 Polish 10
11.5.1 Testing the polish of small diamonds 10
11.5.2 Polish grades 10
11.6 Symmetry 11
11.6.1 Testing the symmetry of small diamonds 11
11.6.2 Symmetry grades 11
12 Colour 11
12.1 Testing the colour of small diamonds 11
12.2 Colour grades 11
13 Fluorescence 12
13.1 Testing the fluorescence of small diamonds 12
13.1.1 Testing the fluorescence by visual means 12
13.1.2 Testing the fluorescence by spectrometry 13
13.2 Description of the fluorescence 13
14 Clarity 13
14.1 Testing the clarity of small diamonds 13
14.2 Clarity grades 13
15 Content of a test report 14
Annex A (informative) **Corresponding figures for round brilliant cut 16**
Annex B (informative) **Flowchart for «sampling control» 18**
Bibliography 21