



**National Standards Authority of Ireland**

**IRISH STANDARD**

**I.S. 17:1960**

ICS 87.040  
71.040.40

**GOLD SIZE**

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*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland and comes into  
effect on:  
March 4, 1960*

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Údarás um Chaighdeán Náisiúnta na hÉireann



# **SPECIFICATION**

## **ENTITLED**

### **STANDARD SPECIFICATION (GOLD SIZE), 1960.**

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The Institute for Industrial Research and Standards in exercise of the power conferred by section 2 of the Industrial Research and Standards (Amendment) Act, 1954 (No. 11 of 1954), and with the consent of the Minister for Industry and Commerce (signified by his Official Seal affixed hereto), hereby declares as follows :

1. This instrument may be cited as the Standard Specification (Gold Size), 1960.

2. (1) The specification set forth in the Schedule shall be the standard specification for Gold Size.

(2) The said standard specification may be cited as Irish Standard 17 : 1960 or I.S. 17 : 1960.

3. (1) The Standard Specification (Gold Size) Order, 1949 (S.I. No. 160 of 1949), is hereby revoked.

(2) Reference in any other standard specification to the Order hereby revoked and to Irish Standard 17 : 1949, thereby prescribed, shall be construed, respectively, as references to this Standard Specification and to Irish Standard 17 : 1960.

## **SCHEDULE**

# **Gold Size**

### **SCOPE**

1. This specification applies to gold size suitable for use as an adhesive for gold leaf, and as a component of paints, varnishes and filling compositions.

### **DESCRIPTION**

2. The material shall be a clear and transparent varnish based on resins, vegetable drying oils, driers and thinners in suitable proportions to satisfy the requirements of this specification. It shall be free from deposit and at 20°C from undissolved water.

### **TYPES**

3. The material shall be one of two types, quick drying or slow drying, specified respectively as gold size type Q, and gold size type S.

### **VISCOSITY**

4. The viscosity of the material at 25°C, determined as described in Appendix A, shall be not greater than 2.5 stokes and not less than 1 stokes.

### **VOLATILE MATTER**

5. The material shall contain not more than 65 per cent by weight of volatile matter determined as described in Appendix B.

### **DRYING TIME**

6. A film of gold size type Q, when tested as described in Appendix C, shall become surface dry in not more than 1 hour, and hard dry in not more than 4 hours.

A film of gold size type S, when tested as described in Appendix C, shall dry to a tack suitable for gilding in not less than 2 hours and shall retain that tack for not less than 9 hours. It shall become hard dry in not more than 24 hours.

### **BEHAVIOUR WITH WHITE LEAD OIL-PASTE**

7. A mixture of the material and white lead oil-paste prepared and stored as described in Appendix D shall not thicken to a stiff paste.



### **MARKING**

8. The material shall be supplied in containers marked with the words "Gold Size", "I.S. 17 : 1960", and with the name or mark of the manufacturer or vendor. The containers shall also be marked so as to indicate clearly the type of the gold size contained therein.

### **SAMPLING**

9. Representative samples each measuring not less than 500 millilitres shall be taken in triplicate from not less than 5 per cent of the original and previously unopened containers or from the bulk during filling. They shall be packed in clean dry airtight non-absorbent containers made of material on which the sample has no action. The containers shall be of such size that they are nearly filled with the sample. Each container so filled shall be sealed and shall be marked with the date of sampling and with sufficient information to identify the sample.

## **APPENDIX A**

### **VISCOSITY**

#### **Glycerol Solutions**

The two reference solutions used in the test shall consist of glycerol of recognized analytical reagent quality dissolved in distilled water. One of the solutions shall have a density at 15°C of 1.2328, and the other solution a density at 15°C of 1.2488. The respective viscosities of these solutions at 25°C are 1 and 2.5 stokes.

#### **Comparison Tubes**

The comparison tubes used in the test shall be similar clear glass tubes approximately 200 mm long, of internal diameter  $10 \pm 0.02$  mm and sealed at one end. The tubes shall be provided with etched index rings round the outside 15 mm and 25 mm from the open ends. The stoppers used for the tubes shall, when firmly inserted, reach the 15 mm index rings.

#### **Procedure**

The material, reference solutions and the comparison tubes shall be brought to 25°C in a thermostatically controlled oven. One of the comparison tubes shall then be filled to the lower index ring with the material. A second tube shall be similarly filled with one of the reference solutions, and a third tube with the other reference solution. Each tube shall be stoppered immediately after being filled.



The tube containing the material shall be placed between the reference tubes, and the three tubes shall be placed together in a thermostatically controlled oven maintained at 25°C for not less than 25 minutes. The tubes shall then be removed from the oven, quickly inverted, and kept vertical while the rates of travel of the bubbles are compared.

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## APPENDIX B

### VOLATILE MATTER

About 2 g of the material shall be weighed to the nearest 0.01 g in a flat-bottomed dish about 75 mm in diameter. The dish and contents shall be heated in an oven for 3 hours at  $105 \pm 2^\circ\text{C}$ , cooled in a desiccator and weighed.

The volatile content shall be taken as

$$100 \frac{w}{W}$$

where  $w$  = loss in weight

and  $W$  = weight of material taken for the determination.

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## APPENDIX C

### DRYING TIME

#### Test Films

Panels for the test films shall be of glass 150 x 100 mm and shall be cleaned by being dipped in benzene and rubbed dry with a clean lintless cloth.

The weight of the material required to produce on a panel a dry film weighing  $21 \pm 3\text{g/m}^2$  shall be calculated from the content of volatile matter. The material shall be rapidly and evenly brushed on the panel until the calculated amount, as indicated by rapid trial weighings, has been applied. The panel shall then be placed, protected from dust, in a vertical position in a well ventilated room maintained at 15–20°C and the film allowed to dry for the specified period, being exposed as long as possible to diffused daylight during this period.

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