



National Standards Authority of Ireland

STANDARD

I.S. 253 : 1982

ICS 13.120

National Standards
Authority of Ireland
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Ireland

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TOXICITY OF PENCILS AND GRAPHIC INSTRUMENTS

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IRISH STANDARD SPECIFICATION

TOXICITY OF PENCILS AND GRAPHIC INSTRUMENTS

I.S. 253: 1982

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WARNING
An Order (S.I. No. 231 of 1983) made by the Minister for Industry and Energy under Section 44 of the Industrial Research and Standards Act, 1961 makes it an offence, as and from 1st February 1984, to manufacture, assemble or sell pencils or graphic instruments unless they comply with the attached Irish Standard 253:1982.

INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS

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DECLARATION

OF

SPECIFICATION

ENTITLED

TOXICITY OF PENCILS AND GRAPHIC INSTRUMENTS

AS

THE IRISH STANDARD SPECIFICATION FOR
TOXICITY OF PENCILS AND GRAPHIC INSTRUMENTS

The Institute for Industrial Research and Standards in exercise of the power conferred by section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry and Energy hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Toxicity of Pencils and Graphic Instruments) Declaration, 1982.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Toxicity of Pencils and Graphic Instruments.

(2) The said standard specification may be cited as Irish Standard 253:1982 or as I.S. 253:1982.

SCHEDULE

Toxicity of Pencils and Graphic Instruments

1. SCOPE

This specification applies to or concerns the toxicity of the surface coatings and the constituents of pencils, pens, crayons, chalk, pencil lead or other graphic instruments. It does not apply to the wood of pencils.

2. TOXIC CONTENT

The coatings of paint, varnish, lacquer or similar substances and the components and constituents of pencils and graphic instruments and any traces of the substance when it is used for writing, drawing or marking, when tested as described in Clause 3, shall not contain the elements listed below in excess of the concentration indicated, the material being calculated as the element. In no case shall the content exceed the concentrations indicated.

antimony	250 mg/kg
arsenic	100 mg/kg
barium	500 mg/kg
cadmium	100 mg/kg
chromium	100 mg/kg
lead	250 mg/kg
mercury	100 mg/kg

3. METHOD OF TEST

Comminute a sample of the coating or the substance under test so that it is capable of passing through a metal sieve with an aperture of 0.5 mm (500 microns). If a constituent contains any wax or oil or similar matter it shall first be removed by means of methyl chloroform (1, 1, 1, trichloroethane).

The test is carried out at a temperature of 20 to 22°C. The comminuted sample is mixed with 50 times its mass of an aqueous solution of hydrochloric acid containing 0.25% by mass of hydrogen chloride (0.07M HCL) and the mixture is shaken continuously for 1 minute. The mixture is tested for acidity and, if its pH value is more than 1.5 an aqueous solution of hydrochloric acid, containing 7.3% by mass of hydrogen chloride (2M HCL) is added drop by drop (the mixture being shaken after each drop is added) until the pH value is 1.5 or less. The mixture is then shaken continuously for 1 hour.

After shaking, the mixture is allowed to stand for 1 hour and is then filtered. The resulting solution is then analysed to determine the content of soluble metals present.

The results are expressed in mg/kg of the original material.

GIVEN under the Seal of the Institute,

this 20th day of September, 1982,



H. O'SULLIVAN,
Chairman of the Board of the Institute.

I consent to the above Declaration—

GIVEN under my Official Seal,

this 15th day of October, 1982,



ALBERT REYNOLDS,
Minister for Industry and Energy.

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