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**INTERNATIONAL STANDARD**



**1249**

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION · МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ · ORGANISATION INTERNATIONALE DE NORMALISATION

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## **Zinc chromate pigments — Basic zinc potassium chromate pigments and zinc tetrahydrochromate pigments**

*Pigments à base de chromate de zinc — Pigments à base de chromate basique de zinc et de potassium et pigments à base de tétrahydrochromate de zinc*

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**Ref. No. ISO 1249-1974 (E)**

**Descriptors :** paints, pigments, zinc chromates, characteristics, materials specifications, tests, chemical analysis.

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, International Standard ISO 1249 replaces ISO Recommendation R 1249-1970 drawn up by Technical Committee ISO/TC 35, *Paints and varnishes*.

The Member Bodies of the following countries approved the Recommendation :

Australia	Ireland	Spain
Austria	Israel	Sweden
Denmark	Italy	Switzerland
Egypt, Arab Rep. of	Netherlands	Turkey
Germany	Peru	United Kingdom
Greece	Poland	U.S.S.R.
India	Portugal	
Iran	South Africa, Rep. of	

The Member Body of the following country expressed disapproval of the Recommendation on technical grounds :

France

The Netherlands Member Body had opposed the approval of clause 4.5.4 of the Recommendation.\*

\* Subsequently, this Member Body approved the Recommendation.

# Zinc chromate pigments – Basic zinc potassium chromate pigments and zinc tetrahydrochromate pigments

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the requirements and corresponding test methods for zinc chromate pigments suitable for use in paints and/or corrosion-inhibiting coatings.

## 2 REFERENCES

ISO 787, *General methods of test for pigments.*

ISO 842, *Raw materials for paints and varnishes – Sampling.*

## 3 DESCRIPTION

Zinc chromate pigments are pigments based on basic zinc chromate or zinc tetrahydrochromate. The following types are distinguished :

a) **Basic zinc potassium chromate pigments (type 1a) :**  
Pigments of approximate composition  
 $K_2CrO_4 \cdot 3ZnCrO_4 \cdot Zn(OH)_2 \cdot 2H_2O$ .

b) **Basic zinc potassium chromate pigments, lead-containing (type 1b) :** Pigments of approximate composition  $K_2CrO_4 \cdot 3ZnCrO_4 \cdot Zn(OH)_2 \cdot 2H_2O$ , in which a lead content up to 2 % maximum is allowed, calculated as PbO.

c) **Zinc tetrahydrochromate pigments (type 2) :**  
Pigments of approximate composition  
 $ZnCrO_4 \cdot 4Zn(OH)_2$ .

## 4 REQUIRED CHARACTERISTICS AND THEIR TOLERANCES

Basic zinc potassium chromate pigments (types 1a and 1b) and zinc tetrahydrochromate pigments (type 2) shall have the characteristics shown in the table.

## 5 SAMPLING

5.1 A representative sample of the pigment shall be taken in accordance with ISO 842.

5.2 The sample agreed between the interested parties, to which reference is made in the table, shall comply with all the requirements specified for the pigment under test.