

**INTERNATIONAL STANDARD****2040**

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## Strontium chromate pigments for paints

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## FOREWORD

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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.

International Standard ISO 2040 was drawn up by Technical Committee ISO/TC 35, *Paints and varnishes*.

It was approved in February 1971 by the Member Bodies of the following countries:

Egypt, Arab Rep. of	Italy	Spain
France	Netherlands	Sweden
Germany	Poland	Switzerland
India	Portugal	United Kingdom
Israel	South Africa, Rep. of	

No Member Body expressed disapproval of the document.

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# Strontium chromate pigments for paints

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard lays down the requirements and test methods for strontium chromate pigments of approximate composition  $\text{SrCrO}_4$  suitable for use in paints and corrosion-inhibiting coatings.

## 2 REFERENCES

ISO/R 787, *General methods of test for pigments.*  
ISO/R 842, *Sampling raw materials for paints and varnishes.*

## 3 REQUIRED CHARACTERISTICS AND THEIR TOLERANCES

Strontium chromate pigments for paints shall have the characteristics shown in the Table below.

## 4 SAMPLING

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

TABLE — Required characteristics and their tolerances

Characteristic <sup>1)</sup>		Requirement	Test method
Strontium content	% SrO	min. 48	clause 5.1
Total chromate content	% $\text{CrO}_3$	min. 46	clause 5.2
Water-soluble chloride content	% Cl	max. 0.1	clause 5.3.2
Water-soluble nitrate content	% $\text{NO}_3$	max. 0.1	clause 5.3.3 or 5.3.4
Chromate content in 100 ml of extract from 10 g of pigment	g $\text{CrO}_3$ /100 ml	0.04 to 0.1	clause 5.3.5
Volatile matter at 105 °C	%	max. 1.0	ISO/R 787, Part II
Oil absorption value, compared with value agreed between the interested parties		within $\pm 15$ %	ISO/R 787, Part V
Residue on sieve (63 $\mu\text{m}$ )	oil method %	max. 0.5	ISO/R 787, Part VI
	water method %	max. 0.3	ISO/R 787, Part VII

1) If a value for density is agreed between the interested parties, the method for determination shall be that given in ISO/R 787, Part X.