INTERNATIONAL STANDARD

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Ultramarine pigments for paints

Pigments d'outremer pour peintures

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Descriptors : paints, pigments, blue pigments, characteristics, materials specifications, classifying, tests, marking.

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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 Sommittees 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 788 replaces ISO Recommendation R 788-1968 drawn up by Technical Committee ISO/TC 35, Paints and varnishes.

The Member Bodies of the following countries approved the Recommendation :

Australia Denmark France Germany India Iran Israel Italy Netherlands New Zealand Portugal South Africa, Rep. of Spain Sweden Switzerland Turkey United Kingdom Yugoslavia ' disapproval of the

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

Japan

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Ultramarine pigments for paints

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the requirements and corresponding test methods for artificial ultramarine pigments, suitable for use in paints.

2 REFERENCES

ISO 787, General methods of test for poments.

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

3 DESCRIPTION

Ultramarine pigments are mineral pigments characterized by the presence of metalloids such as sulphur, incorporated in a complex of aluminium sodium silicates.

NOTE — Small quantities of extenders may be present, as they may be used for adjustment of tinting strength.

The following types are distinguished :

- type A : maximum 0,5 % free sulphur
- type B : maximum 0,1 % free sulphur

4 REQUIRED CHARACTERISTICS AND THEIR TOLERANCES

The pigment shall be in the form of a soft dry powder or in such a condition that it may be readily reduced thereto by crushing under a palette knife, without grinding action.

It shall have the characteristics shown in the table.

5 SAMPLING

and their tolerances

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

Characteristic		Reprement	Test method
Relative density at 23 °C		min 33. max. 244	ISO 787 Part X
Colour		In accordance with that of an agreed sample	ISO 787 Part I
Relative tinting strength ¹⁾		In accordance with that of an agreed sample ²⁾	ISO 787 Part XVI
Matter volatile at 105 °C	% (<i>m/m</i>)	max. 1	ISO 787 Part II
Matter soluble in hot water	% (m/m)	max. 1,5	ISO 787 Part III
Residue on sieve of mesh aperture 63 μ m (water method)	% (m/m)	max. 0,5	ISO 787 Part VII
Soluble organic colouring matter		Negative test	Clause 6
Free sulphur	% (m/m)	Туре А : max. 0,5 Туре В : max. 0,1	Clause 7
Oil absorption value ³⁾		Within the range of \pm 10 % of the value of an agreed sample	ISO 787 Part V

1) When the ultramarine pigment is intended for use as a standard coloured pigment in the determination of the lightening power of white pigments, it shall be subjected to this test with each type of white pigment.

2) The tolerance of the relative tinting strength shall be fixed by agreement between the interested parties.

3) The oil absorption value of ordinary commercial grades is usually between 30 and 40 ml per 100 g of pigment.

TABLE - Required character