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Second edition
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Vitreous and porcelain enamels — Determination of the resistance to abrasion —

Part 2:

Loss in mass after sub-surface abrasion

*Émaux vitrifiés — Détermination de la résistance à l'abrasion —
Partie 2: Perte de masse après abrasion de la couche superficielle*



Reference number
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Foreword

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 6370-2 was prepared by Technical Committee ISO/TC 107, *Metallic and other inorganic coatings*.

This second edition cancels and replaces the first edition (ISO 6370-2:1991), of which it constitutes a minor revision.

ISO 6370 consists of the following parts, under the general title *Vitreous and porcelain enamels — Determination of the resistance to abrasion*:

- *Part 1: Abrasion testing apparatus*
- *Part 2: Loss in mass after sub-surface abrasion*

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Introduction

Extensive tests have shown that, with the comparative method described in this part of ISO 6370, the uncertainty of measurement of test results is ± 5 %. Furthermore, absolute quantities for the amount of wear give little information, because abrasives used in practice differ considerably in their effect on enamelled surfaces. Each abrasion test with a standardized method can only be carried out with the aim of providing a general classification of various vitreous and porcelain enamels in relation to each other. Absolute quantities for the amount of wear are therefore not required.

Numerous tests have shown that the three required test periods of 30 min were sufficient to obtain comparable results. If the vitreous and porcelain enamel coat to be tested is thicker than 0,2 mm, it is not necessary to determine the loss in mass after each 30 min test period, because the abrasion under the conditions described in this part of ISO 6370 is directly proportional to the test duration.