International Standard 5019/6

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Refractory bricks — Dimensions — Part 6 : Basic bricks for oxygen steel-making converters

Briques réfractaires — Dimensions — Partie 6 : Briques basiques pour convertisseurs à oxygène

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been established 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. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

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Refractory bricks — Dimensions — Part 6: Basic bricks for oxygen steel-making converters

0 Introduction

This document provides for twelve thicknesses of lining, rising from a minimum of 250 mm to a maximum of 800 mm in steps of 50 mm.

For each lining thickness there is a rectangular brick (i.e. a brick with zero taper) and bricks with either four rates of taper (for the five smallest thicknesses) or five (for the seven largest thicknesses). All the bricks have a constant median dimension of 150 mm.

The course height is uniformly 100 mm.

1 Scope and field of application

1.1 This part of ISO 5019 specifies the dimensions of basic refractory bricks for use in oxygen steel-making converters.

1.2 For information, the calculated volume of each size of brick is shown in the table, and also the internal diameter of lining for which each size is suitable, if used alone. These diameters have been calculated with no allowance for joint thickness.

2 Dimensions

The dimensions of basic bricks for use in oxygen steel-making converters shall be as shown in the table.

The letters designating the dimensions in the table are shown in the figure. The letters do not necessarily apply to tables and figures in other International Standards.

3 Bricks designations

Each brick size has a conventional designation, as shown in the first column of the table. Each designation consists of two groups of digits separated by a solidus (slash). The first group, of two digits, before the solidus, shows the brick length (or lining thickness) in centimetres; the second group, after the solidus, shows the difference between the cold and hot face dimensions in millimetres (i.e. the rate of taper). In the case of a rectangular brick the second group is a single zero.

4 Tolerances

Tolerances on the dimensions specified in the table shall be the subject of agreement between the purchaser and the supplier.

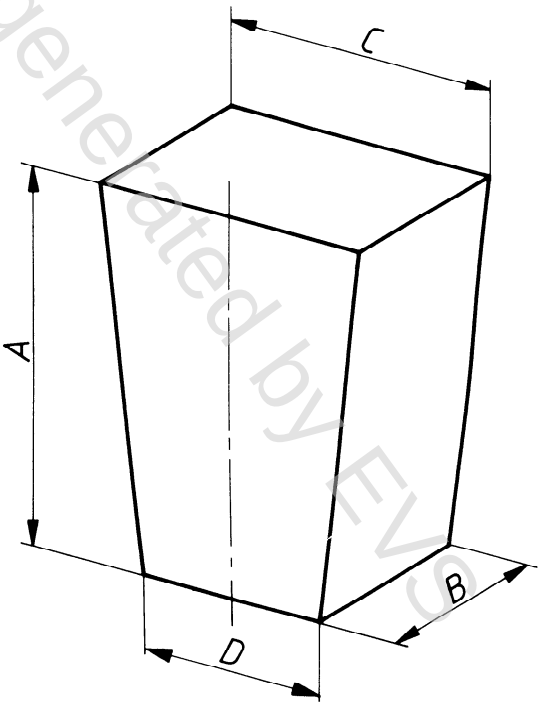

Figure — Brick for oxygen steel-making converters