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The autoclaved concrete industry: An easy-to-follow method for optimization and testing

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KEYWORDS
• This work describes a simple method to optimize the autoclave test curves of crystalline silica with hydrated lime (SH).
• The amount of SH is determined in a mixture of 20% SH and 80% CH.
• A compression factor of 1.2 is calculated for the required data.
• A verification test for the compression factor was carried out using Portland cement.
• The amount of ground sand added to cement was previously calculated using the compression factor.

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ABSTRACT
This work describes a simple method to optimize the amount of ground crystalline silica with hydrated lime (SH) under autoclave conditions. The standard procedure of autoclaving concrete specimens is to use a mixture of 20% SH and 80% CH. The amount of SH is determined in a mixture of 20% SH and 80% CH. The amount of SH is determined in a mixture of 20% SH and 80% CH. The amount of SH is determined in a mixture of 20% SH and 80% CH.

1. Introduction
Currently advanced and green technologies necessitate the use of mineral admixtures in concrete. However, mineral admixtures are available in many developing countries, which create an obstacle to the concrete production due to the additional cost of transportation and processing. Additionally, frequent variations in the physical and chemical properties of mineral admixtures from one shipment to another represents another critical problem to be solved. The importance of mineral admixtures in concrete is indisputable. However, in developing countries, replacing alternative local materials has become unavoidable. The replacement of common mineral admixtures with local materials provides an alternative solution to these problems in specific applications.

These local materials available in many desert regions of the world, may prove to be active in autoclaved concrete. It can be taken as a typical example in the local materials that can generally replace common mineral admixtures in specific concrete

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