

JIS

JAPANESE INDUSTRIAL STANDARD

Molding Silica Sand

JIS G 5901 —1974

Translated and Published

by

Japanese Standards Association

Printed in Japan



Documents

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JAPANESE INDUSTRIAL STANDARD

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Molding Silica Sand

G 5901-1974
(Reaffirmed: 1983)1. Scope

This Japanese Industrial Standard specifies the molding silica sand, hereinafter, referred to as the "silica sand" of under 2 % in clay content.

2. Classification

For the silica sand, natural silica sand⁽¹⁾ and artificial silica sand⁽²⁾ shall be classified into 6 classes according to chemical composition and into 10 classes of number 10 to number 200 according to fineness.

Notes (1) The natural silica sand herein means silica sand not processed with size reduction treatment.

(2) The artificial silica sand herein means silica sand processed with size reduction treatment.

3. Chemical Composition

The chemical composition of silica sand shall be as given in Table 1.

Table 1. Chemical Composition

Unit: %

Classifi- cation	Chemical composition	Chemical composition of impurities		
	SiO ₂	Fe ₂ O ₃	Al ₂ O ₃	CaO + MgO
Class 1	98 and over	0.5 and under	1.0 and under	1.0 and under
Class 2	96 and over, up to 98	1.0 and under	2.0 and under	1.5 and under
Class 3	93 and over, up to 96	1.5 and under	4.5 and under	2.0 and under
Class 4	90 and over, up to 93	2.0 and under	6.0 and under	2.5 and under
Class 5	85 and over, up to 90	3.0 and under	8.0 and under	3.0 and under
Class 6	70 and over, up to 85	5.0 and under	15.0 and under	5.0 and under

Applicable Standards:

JIS R 2212-Chemical Analysis for Fire-Brick

JIS Z 2601-Method for Determining Clay Content of Foundry Sands

JIS Z 2602-Method for Determining Fineness of Foundry Sands