

JIS

JAPANESE INDUSTRIAL STANDARD

Sodium Silicate



JIS K 1408-1966

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Translated
by
Japanese Standards Association

1-24, Akasaka 4, Minato-ku
Tokyo 107 Japan
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JAPANESE STANDARDS ASSOCIATION



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J I S

Sodium Silicate

K 1408-1966

 $\text{Na}_2\text{O} \cdot n \text{SiO}_2 \cdot x \text{H}_2\text{O}$

(Reaffirmed: 1979)

1. Scope

This Japanese Industrial Standard specifies the sodium silicate as industrial chemical.

2. Quality

The sodium silicate shall be tested in accordance with Clause 4, and the test results shall meet the requirements below:

Classification Item	No. 1	No. 2	No. 3	Sodium metasilicate	
				Class 1	Class 2
Appearance	Colourless or light colour liquid like starch syrup			White powder or granule	White crystals
Specific gravity (15°C BÉ)	-	54 min.	40 min.	-	-
Silicon dioxide (SiO ₂) %	35 to 38	34 to 36	28 to 30	27.5 to 29	19 to 22
Sodium oxide (Na ₂ O) %	17 to 19	14 to 15	9 to 10	28.5 to 30	20 to 22
Iron (Fe) %	0.03 max.	0.03 max.	0.02 max.	-	-
Water-insoluble matter %	0.2 max.	0.2 max.	0.2 max.	-	-

Remark: Class 1 sodium metasilicate is of pentahydrate and Class 2 is of nonahydrate.

Reference Standards: see page 12.