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**Corrosion inhibitor for reinforcing
steel in concrete**

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee, as the result of proposal for revision of Japanese Industrial Standard submitted by JAPAN CONCRETE ADMIXTURE ASSOCIATION (JCAA)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS A 6205 : 1993** is replaced with this Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

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Corrosion inhibitor for reinforcing steel in concrete

1 Scope This Japanese Industrial Standard specifies the corrosion inhibitor for reinforcing steel in concrete (hereafter referred to as “corrosion inhibitor”) used as an admixture in concrete.

2 Normative references Standards listed in Attached Table 1 contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards (including amendments) shall be applied.

3 Definitions For the purposes of this Standard, the definitions in **JIS A 0203** and the following definitions apply.

- a) **reference concrete** Concrete to be used for the reference when testing the quality of corrosion inhibitors, which does not use corrosion inhibitors.
- b) **test concrete** Concrete to be used under the test when testing the quality of corrosion inhibitors, which is made of the reference concrete using corrosion inhibitors.
- c) **percentage of corrosion prevention** An index which indicates a corrosion inhibitive effect of corrosion inhibitors, which refers to the percentage obtained by dividing the value obtained by subtracting the area of corrosion of reinforcing bars in the test concrete from the area of corrosion of reinforcing bars in the reference concrete by the area of corrosion of reinforcing bars in the reference concrete.

4 Quality

4.1 Performance The performance of corrosion inhibitors shall be subjected to the test in accordance with clause 5, and the test result shall conform to the requirements specified in Table 1. However, for the setting time and compressive strength of concrete, the test shall be performed with respect to the concrete of slump of 8 cm and 18 cm.

Table 1 Performance of corrosion inhibitors

Item		Specification	Test method
State of corrosion (visual observation)		Corrosions shall not be found.	In accordance with 5.1
Percentage of corrosion prevention %		95 min.	In accordance with 5.2
Difference of setting time of concrete min	Start	-60 to +60	In accordance with 5.3
	End	-60 to +60	
Compressive strength ratio of concrete %	Material age of 7 days	90 min.	
	Material age of 28 days	90 min.	