

Forty-four JSCE concrete standards in English to be made freely available in downloadable form

(Sub-committee on Test Methods and Specifications for Concrete, Concrete Committee)

JSCE has about 140 standards relating to concrete in Japanese. These JSCE standards include test methods for concrete and specifications of material quality for concrete, just like the Japanese Industrial Standards (JIS) and so on. As of this time, 44 of the 140 standards (see attached list) have been translated into English.

These JSCE concrete standards are divided into 11 categories relating to the materials used for concrete, the concrete itself, and concrete structures: cement, water, aggregate, additives, reinforcement, fresh concrete, hardened concrete, concrete products, construction equipment, resin concrete, repair materials, and general.

The first distribution of English versions planned for upload to our website will consist of thirteen standards, including 10 relating to test methods for pre-stressed concrete sheaths, a test method based on EPMA, a test method for trace element leaching, and a measurement method for the resistivity of repair materials. The remaining 31 standards will be successively made available in the same way in the near future.

JSCE Standards (Apr./9/2012)

*10 Standards related to prestressed concrete sheaths

Number	Year	Title
JSCE-E 701	2010	Test method for resistance of metal sheath for prestressed concrete under concentrated loading (draft)
JSCE-E 702	2010	Test method for resistance of metal sheath for prestressed concrete under uniform compressive loading (draft)
JSCE-E 703	2010	Test method for flexibility of metal sheath for prestressed concrete (draft)
JSCE-E 704	2010	Test method for resistance of plastic sheath for prestressed concrete under concentrated loading (draft)
JSCE-E 705	2010	Test method for resistance of plastic sheath for prestressed concrete under uniform compressive loading (draft)
JSCE-E 706	2010	Test method for flexibility of plastic sheath for prestressed concrete (draft)
JSCE-E 707	2010	Test method for leak tightness for plastic sheath of prestressed concrete (draft)
JSCE-E 708	2010	Test method for flexural characteristics of plastic sheath for prestressed concrete (draft)
JSCE-E 709	2010	Test method for abrasion resistance of plastic sheath for prestressed concrete (draft)
JSCE-E 710	2010	Test method for bond characteristics of plastic sheath for prestressed concrete (draft)

*EPMA

Number	Year	Title
JSCE-G 574	2005	Area analysis method for chemical element distribution in concrete using EPMA (draft)

*Leaching of trace elements

Number	Year	Title
JSCE-G 575	2005	Test method for leaching of trace elements from hardened concrete (draft)

*Resistivity of repair materials

Number	Year	Title
JSCE-K 562	2008	Test method for measuring resistivity of patching materials with four electrodes (draft)

*Other 31 Standards

Number	Year	Title
JSCE-C 506	2003	Test method of density and water absorption of slag aggregate for concrete by measurement of electric resistance
JSCE-D 102	2005	Specification for set accelerating agent for sprayed concrete (mortar) (draft)
JSCE-F 561	2005	Method of making specimens for compressive strength tests of sprayed concrete (mortar) (draft)
JSCE-F 562	2005	Method of making specimens for durability tests of sprayed concrete (mortar) (draft)
JSCE-F 563	2005	Test method for rebound percentage of sprayed concrete (mortar) (draft)
JSCE-F 564	2005	Test method for dust concentration in air during spraying concrete (mortar) (draft)
JSCE-F 565	2005	Test method for mechanical properties, spraying performance and durability of sprayed concrete (mortar) (draft)
JSCE-F 566	2005	Method of making specimens of bond strength tests of sprayed concrete (mortar) for repairing and strengthening (draft)
JSCE-G 561	2005	Test method for early strength of sprayed concrete (mortar) by pull-out method (draft)
JSCE-G 562	2005	Test method for early strength of sprayed concrete (mortar) using prism specimens (draft)
JSCE-G 563	2005	Test method for strength of sprayed concrete (mortar) for repairing and strengthening using prism specimens (draft)
JSCE-G 564	2005	Test method for length change of sprayed concrete (mortar) for repairing and strengthening (draft)
JSCE-G 571	2003	Test method for effective diffusion coefficient of chloride ion in concrete by migration
JSCE-G 572	2003	Test method for apparent diffusion coefficient of chloride ion in concrete by immersion in salt water
JSCE-G 573	2003	Measurement method for distribution of total chloride ion in concrete structure
JSCE-K 511	2007	Test method for weathering resistance of concrete surface coating materials
JSCE-K 521	1999	Test method for oxygen permeability of concrete surface coating materials
JSCE-K 522	2005	Test method for vapor permeability of concrete surface coating materials
JSCE-K 523	2005	Test method for water permeability of concrete surface coating materials
JSCE-K 524	2005	Test method for chloride ion permeability of concrete surface coating materials
JSCE-K 531	1999	Test methods for bond strength of concrete surface coating materials

JSCE-K 532	2007	Test method for elongation performance of concrete surface coating materials over concrete crack
JSCE-K 541	2000	Test methods of organic crack injecting materials for repairing in concrete structures
JSCE-K 542	2000	Test method of cement crack injecting materials for repairing in concrete structures
JSCE-K 543	2000	Test methods for polymer modified cement crack injecting materials for repairing in concrete structures
JSCE-K 551	2000	Test method of grouting organic materials for repairing and strengthening in concrete structures
JSCE-K 552	2000	Test methods of cement grouting materials for repairing and strengthening in concrete structures
JSCE-K 553	2000	Test methods of polymer modified cement grouting materials for repairing and strengthening in concrete structures
JSCE-K 561	2003	Test method of patching repair materials in concrete structures
JSCE-K 571	2004	Test methods of surface penetrants for concrete structures (draft)