JIS

JAPANESE INDUSTRIAL STANDARD

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JIS K 1475 : 1996

Poly aluminium chloride for water works

JIS K 1475 : 1996 has been revised under date of March 25, 2006. The revised items are included in Amendment 1.

ICS 71. 060. 50

Descriptors : aluminium inorganic compounds, chlorides, waterworks, water supply

Reference number : **JIS K 1475 : 1996 (E)**

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

Poly aluminium chloride for water works
$[Al_2(OH)_nCl_{6-n}]_m$

1 Scope This Japanese Industrial Standard specifies poly aluminium chloride for water works.

Remarks: The standards cited in this Standard are listed in Attached Table 1.

2 Quality The quality, when being tested according to 4, shall conform to the requirements shown in Table 1.

The judgement method of flocculation property shall be shown in Informative reference.

Table 1 Quality

Appearance		Colorless to clear light yellowish brown liquid
Specific gravity (20 °C)		1.19 min.
Aluminium oxide (Al_2O_3)	wt%	10.0 to 11.0
Basicity	wt%	45 to 65
pH value (10 g/*l* solution)		3.5 to 5.0
Sulfate ion (SO_4^{2-})	wt%	3.5 max.
Ammoniacal nitrogen (N)	wt ppm	100 max.
Arsenic (As)	wt ppm	1.0 max.
Iron (Fe)	wt ppm	100 max.
Manganese (Mn)	wt ppm	15 max.
Cadmium (Cd)	wt ppm	1.0 max.
Lead (Pb)	wt ppm	5 max.
Mercury (Hg)	wt ppm	0.1 max.
Chromium (Cr)	wt ppm	5 max.

3 Sampling method Sampling shall be carried out so as to make the sample represent whole body according to rational method based on the agreement between the parties concerned with delivery.

4 Test method

4.1 General matters General matters applicable commonly to tests shall follow JIS K 0050, those to absorptiometry follow JIS K 0115, those to atomic emission spectrometry follow JIS K 0116, those to atomic absorption spectrometry follow JIS K 0121, and those to ion chromatography follow JIS K 0127.

The water for tests shall be A2 specified in 3 of JIS K 0557 or superior one, except when the test specifies the water to be used.

4.2 Specific gravity

(1) **Summary** Keep sample at 20 °C, and measure it using a specific gravity hydrometer.