

Product certificate K88452/01



Issued 2015-10-15

Replaces -

Page 1 of 3

ALS (aluminium sulfate)

STATEMENT BY KIWA

With this product certificate, issued in accordance with the Kiwa Regulations for Product Certification, Kiwa declares that legitimate confidence exists that the products supplied by

Kemira Germany GmbH

as specified in this product certificate and marked with the Kiwa® -mark in the manner as indicated in this product certificate may, on delivery, be relied upon to comply with the Regeling materialen en chemicaliën drink- en warm tapwatervoorziening (Regulation materials and chemicals in the supply of drinking water and hot tap water).

Bouke Meekma
Kiwa

Publication of the certificate is allowed.

Advice: consult www.kiwa.nl in order to ensure that this certificate is still valid.

Kiwa Nederland B.V.

Sir Winston Churchilllaan 273
Postbus 70
2280 AB RIJSWIJK
The Netherlands

Tel. +31 88 998 44 00
Fax +31 88 998 44 20
info@kiwa.nl
www.kiwa.nl



286150609

Company

Kemira Germany GmbH
Unterschweinstiege 2-14
DE-60549 Frankfurt/Main
Germany

Tel. +49 (0) 69 256128-0
Fax. +49 (0) 69 256128-191

Production location

Kemira Germany GmbH
TM Dormagen
CHEMPARK Dormagen
Tor14, Gebäude B811
Alte Heerstraße 1
DE-41538 Dormagen
Germany

Tel. +49 69 / 256 126 311
Fax. +49 69 / 256 128 391

**Certification process
consists of initial and
regular assessment of:**

- quality system
- product

ALS (aluminium sulfate)

PRODUCT SPECIFICATION

This certificate covers 'ALS' (aluminium sulfate) used as a flocculant for water treatment.

APPROVAL

The products are approved on the basis of the requirements set in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" ("Materials and chemicals in the supply of drinking water and warm tap water Regulation"), published in the Government Gazette.

CRITERIA HYGIENIC ASPECTS

The product certification is based on two main criteria. It should permanently comply with the:

- product recipe approved during the assessment procedure. This recipe is not to be changed without prior approval by Kiwa following the Kiwa approval procedure related to the hygienic aspects.
- specific product requirements (see "PRODUCT REQUIREMENTS HYGIENIC ASPECTS").

PRODUCT REQUIREMENTS HYGIENIC ASPECTS

For this product are relevant the specification and requirements of the positive list for flocculants mentioned in the "Regeling materialen en chemicaliën drink- en warm tapwatervoorziening" (published in the Government Gazette).

The following maximum contents of heavy metals are applicable:

	Content (g/kg) of active ingredient in the delivered product
As Aluminium	43
Component	Maximum content in mg/kg flocculant containing aluminium
Antimony	1,4
Arsenic	2,9
Cadmium	1,4
Chrome	14,3
Cyanides	14,3
Mercury	0,3
Lead	2,9
Nickel	5,7
Selenium	2,9

APPLICATION AND USE

The product is used as a flocculant for water treatment. The maximum dosage of 'ALS' is 15 mg aluminium per litre water to be treated. Use of this flocculant may increase the concentration of aluminium in the drinking water supplied. If greater than 30 µg/l, this must be reported to the regulator in relation to the possible use of tap water for dialysis, in accordance with the Water Supply Act.

MARKING


Design of the required Kiwa certification mark:

- "KIWA ", in ink or seal.

Location of the mark:

- On the product / On the packaging / On the delivery receipt.

Mandatory marks:

- "KIWA ",
- "ALS",
- "K88452".

REMAINING CONDITIONS

- The means for and the way of transportation, storage and packaging have to be in accordance with the directives as given by the consumer, taking into consideration the use of the product. (These guidelines are not a part of the hygienic criteria.)
- In case, by using this product, the concentration of the aluminium in the drinking water is higher than 30 µg/l, the inspector, as meant in the Drinking Water Decree, article 48, first subsection, has to be informed.

ALS (aluminium sulfate)

RECOMMENDATIONS FOR CUSTOMERS

Check at the time of delivery whether:

- the supplier has delivered in accordance with the agreement;
- the mark and the marking method are correct;
- the products show no visible defects as a result of transport etc.

If you should reject a product on the basis of the above, please contact:

- Kemira Germany GmbH
- and, if necessary,
- Kiwa Nederland B.V.

Consult the supplier's processing guidelines for the proper storage and transport methods.