



789 N. Dixboro Rd. Ann Arbor, MI 48105, USA  
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# EVALUATION REPORT

**Send To: C0267514**

Mr. Mustafa Amet  
Hicri Ercili Deniz Nakliyat Kimyevi Maddeler san. ve Tic. Ltd. Sti  
600 evler mahallesi  
Balikesir Asfalti sag taraf no:72  
10200 Bandirma-Balikesir  
Turkey

**Facility: C0596932**

Hicri Ercili Deniz Nakliyat Kimyevi Maddeler san. ve Tic. Ltd. Sti  
600 evler mahallesi  
Balikesir Asfalti sag taraf no:72  
10200 Bandirma-Balikesir  
Turkey

Result	PASS	Report Date	13-MAR-2023
Customer Name	Hicri Ercili Deniz Nakliyat Kimyevi Maddeler san. ve Tic. Ltd. Sti		
Tested To	NSF/ANSI/CAN 60		
Description	Aluminum Sulfate   Solid		
Trade Designation	Aluminum Sulfate		
Test Type	Annual Collection		
Job Number	A-00454728		
Project Number	W0819712		
Project Manager	Victoria Spetschinsky		

This report documents the testing of the referenced product to the requirements of NSF/ANSI/CAN Standard 60 (Drinking Water Treatment Chemicals - Health Effects). This standard establishes minimum requirements for chemicals, the chemical contaminants, and impurities that are added to drinking water from drinking water treatment chemicals. Contaminants produced as by-products through reaction of the treatment chemical with a constituent of the drinking water are not covered by this Standard. Reference the "About the Standard" section at the end of this report for additional information about NSF/ANSI/CAN Standard 60 and the products covered under this Standard.

**Thank you for having your product tested by NSF.**

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

**Report Authorization**   
Scott E. Randall - Senior Manager Commercial Water

**Date** 13-MAR-2023



### General Information

Standard: NSF/ANSI/CAN 60  
 Chemical Name: Aluminum Sulfate 99%  
 Monitor Code: A  
 Physical Description of Sample: Solid  
 Tested DCC Number: DA10426  
 Trade Designation/Model Number: Aluminum Sulfate

Sample Id: **S-0001980700**  
 Description: Aluminum Sulfate | Solid  
 Sampled Date: 06-Mar-2023  
 Received Date: 27-Jan-2023

Tox Normalization Information:		Lab Normalization Information:	
Calculated NF	0.0961	Date exposure completed	06-MAR-2023
Preparation method used	K	Final volume of solution	0.5 L
MUL	156 mg/L	Mass of material used	812 mg
Compound Reference Key:	SPAC		

### Normalization Calculation:

$$\text{Normalized Result} = \text{Test Result (ug/L)} * \text{NF} \quad \text{Where NF} = \text{MUL (mg/L)} * \frac{\text{Final Volume Of Solution (L)}}{\text{Mass of Material Used (mg)}}$$

- MUL = Maximum Use Level;
- Mass of Material Used = The mass of sample analyzed in the laboratory;
- Final Volume of Solution = The volume of water used to dilute the sample;
- An additional factor may be used to adjust the analytical result to field use conditions to account for product carryover, flushing, or other assumptions stipulated with the use of the product. If an additional factor is used, it is included in the information above.

Testing Parameter	Units	Sample	Control	Result	Norm. Result	Acceptance Criteria(1)	Evaluation Status
<b>Ann Arbor Chemistry Lab</b>							
Metals II in water by ICPMS (Ref: EPA 200.8)							
Arsenic	ug/L	ND(1)	ND(1)	ND(1)	ND(0.1)	1	Pass
Barium	ug/L	2	ND(1)	2	0.2	200	Pass
Beryllium	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.05)	0.4	Pass
Cadmium	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.02)	0.5	Pass
Chromium	ug/L	ND(1)	1	ND(1)	ND(0.1)		
Copper	ug/L	ND(1)	ND(1)	ND(1)	ND(0.1)	130	Pass
Mercury	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.02)	0.2	Pass
Lead	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.05)	0.5	Pass
Antimony	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.05)	0.6	Pass
Selenium	ug/L	ND(1)	ND(1)	ND(1)	ND(0.1)	5	Pass
Thallium	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.02)	0.2	Pass
1 - If the acceptance criteria is blank and the evaluation status is "Fail", then the criteria used will be noted on the letter accompanying these results.							



**Common Terms and Acronyms Used:**

- Sample..... Test result on the submitted product sample after prepared or exposed in accordance with the standard.
- Control..... Test result on a laboratory blank sample analyzed in parallel with the sample.
- Result..... Sample test result minus the Control test result.
- Normalized Result... Result normalized in accordance with the test standard to reflect potential at-the-tap concentrations
- ND()..... Result is below the detection level of the analytical procedure as identified in the parenthesis.
- DCC Number..... NSF document control code of the registered formulation of the product tested
- ug/L..... Microgram per liter = 0.001 milligram per liter (mg/L)
- SPAC..... Acceptance criteria of the standard (Single Product Allowable Concentration)

**References to Testing Procedures:**

NSF Reference	Parameter / Test Description
C1183	Metals II in water by ICPMS (Ref: EPA 200.8)

Test descriptions preceded by an asterisk "\*" indicate that testing has been performed per NSF requirements but is not within its scope of accreditation.

Unless otherwise indicated, method uncertainties are not applied in any determinations of conformity. Testing utilizes the requested sections of any referenced standards, which may not be the entire standard.

**Dates of Laboratory Activity: 03-MAR-2023 to 10-MAR-2023**

**Testing Laboratories:**

All work performed at:	→	<table border="0"> <tr> <td style="text-align: center;"><b>Id</b></td> <td style="text-align: center;">-----</td> </tr> <tr> <td style="text-align: center;">NSF_AA</td> <td></td> </tr> </table>	<b>Id</b>	-----	NSF_AA		<table border="0"> <tr> <td style="text-align: center;"><b>Address</b></td> <td style="text-align: center;">-----</td> </tr> <tr> <td>NSF</td> <td></td> </tr> <tr> <td>789 N. Dixboro Road</td> <td></td> </tr> <tr> <td>Ann Arbor MI 48105</td> <td></td> </tr> </table>	<b>Address</b>	-----	NSF		789 N. Dixboro Road		Ann Arbor MI 48105	
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**About the Standard:**

NSF/ANSI/CAN Standard 60: Drinking Water Treatment Chemicals - Health Effects

NSF/ANSI/CAN 60 establishes minimum health effects requirements for the chemicals, the chemical contaminants, and the impurities that are directly added to drinking water from drinking water treatment chemicals. It does not establish performance or taste and odor requirements. The standard contains requirements for chemicals that are directly added to water and are intended to be present in the finished water as well as other chemical products that are added to water but are not intended to be present in the finished water. Chemicals covered by this Standard include, but are not limited to, coagulation and flocculation chemicals, softening, precipitation, sequestering, pH adjustment, and corrosion/scale control chemicals, disinfection and oxidation chemicals, miscellaneous treatment chemicals, and miscellaneous water supply chemicals.

The testing performed to this standard is done to estimate the level of contaminants or impurities added to drinking water when the chemical is used at the "Maximum Use Level" under attestation. Prior to testing, information is obtained on the formulation and sources of supply used to manufacture the chemical. This information is then reviewed along with the minimum requirements of the standard to establish the potential contaminants of concern. A representative sample of chemical is obtained for testing. The chemical sample is prepared for analysis through specific methods established in the standard based on the type of chemical and then is analyzed for potential contaminants determined during the formulation review. The laboratory results are normalized to represent potential at-the-tap values and then compared to the "single product allowable concentration" (SPAC) established by the standard. The product is found in compliance with the standard if the normalized value is less than or equal to the allowable concentration.