



**BUREAU OF RESEARCH, TESTING AND CONSULTATION (BRTC)**  
**Department of Chemistry**  
**Chittagong University of Engineering and Technology (CUET)**  
**Chattogram-4349, Bangladesh**

**TEST REPORT**

Test Report No. : CUET/CHEM/2026/050E

Sample Tag No. : 725007

Name of Section : Section-8(D)

B/E No. & Date : C-498158, Date: 10/03/2026



Date of Report Delivery: 16/03/2026

Sample Received on : 15/03/2026

Sample: 01 Bag (Sealed Condition)

Declared Commodity Name as per Invoice/MSDS: **SODIUM SULPHATE ANHYDROUS**

Ref. file No. & Date: ০৫/কা:হা:চট্ট:/সেকশন-৮(ডি)/৫৪৮/শুক্রায়ন/২০২৬/২০১০৬ (কাস);

তারিখ: ১৫/০৩/২০২৬ খ্রিঃ

**TEST RESULTS**

SN	Parameters	Descriptions	
1	Method of test/analysis:	Physical, chemical and spectroscopic.	
2	Physical properties	Physical state : <b>Crystalline solid</b> Colour : <b>White</b> Odour : <b>Odourless</b> Solubility : <b>Soluble in water</b>	Melting point : <b>&gt; 350°C</b> Specific gravity : <b>&gt; 1</b>
3	Chemical and spectroscopic analysis	Sodium ion (Na <sup>+</sup> ) test : <b>Positive (+ve)</b> Sulphate ion (SO <sub>4</sub> <sup>2-</sup> ) test : <b>Positive (+ve)</b> Chloride ion (Cl <sup>-</sup> ) test : <b>Trace amount</b> Hydrate test : <b>Negative (-ve)</b>	
4	Chemical name	Chemical name of the sample is <b>Sodium Sulphate Anhydrous (Na<sub>2</sub>SO<sub>4</sub>)</b> .	
5	Probable uses of the product	<i>It is used in various industries like glass, pulp and paper, leather, soap, textile, detergent, battery, ceramic and chemical manufacturing.</i>	
6	Note (if any)	Disodium sulphate, Sodium sulfate and <b>Sodium sulphate anhydrous</b> are the same products having molecular formula <b>Na<sub>2</sub>SO<sub>4</sub></b> . Glauber's salt, also known as Mirabilite is a <b>hydrous</b> sodium sulphate having molecular formula <b>Na<sub>2</sub>SO<sub>4</sub>.10H<sub>2</sub>O</b> .	

**Responses to quarries:**

1. The sample is **Sodium Sulphate Anhydrous**.
2. It is neither Glauber salt nor Table Salt (Salt Sodium Chloride).
3. N/A

Test conducted by

*Saswati*  
16/3/26  
**Dr. Saswata Rabi**  
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Checked by

*Rezaul*  
16.03.26  
**Dr. Md. Rezaul Karim**  
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Countersigned by

*Roksana*  
16.3.26  
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*Note: Any complain about sample / test report will not be acceptable after one month from the date of report delivery.*