

BIRLASULF - SM

Product Specification Sheet

Name	:	Sodium Metabisulphite
Grade	:	Photo
Description:	Sodium Metabisulphite is a free flowing crystalline powder with odour of SO ₂	
Formula	:	Na ₂ S ₂ O ₅
Synonyms	:	Anhydrous Sodium Bisulphite, Sodium Pyrosulphite, Sodium disulphite
Molecular Weight	:	190.12
Bulk Density	:	1.2 - 1.3 kg/dm ³
Appearance	:	White free flowing crystals
Appearance of 20% Solution	:	Clear & Colorless or Pale yellow.
CAS NO	:	7681-57-4

Specification:

Assay	% w/w	98.0 Min.	Iron (as Fe)	ppm	3 Max.
SO ₂	%	66 Min.	Heavy Metals. (as Pb)	ppm	10 Max.
Sulphate	% w/w	1.5 Max.	Selenium (as Se)	ppm	1 Max.
Insolubles	% w/w	0.03 Max.	Arsenic (as As)	ppm	1 Max.
pH of 5% Solution@25°C		4.0 - 4.8	NaCl	ppm	50 Max.
Ammonium Silver Nitrate Test	--	Passes	Na ₂ SO ₃	Wt%	1 Max.

Specs. Conforming to ANSI PH4 276:1980, ISO 3267 & BSS 3834

The above mentioned Values are according to the requirements of:

FDA	----	Food & Drug Administration of Thailand.
FCC	----	Food Chemical Codex, USA
BP	----	British Pharmacopoeia, England.

ANALYSIS METHODS:

The indicated values are determined according to our Standard Analysis method, which can be produced on request.

STANDARD PACKING:

- 25 Kgs Polypropylene Woven / paper bags with heat sealed inner liner.
- 500 Kgs and 1000 Kgs Jumbo Bags.

STORAGE & HANDLING:

Store the product in a cool & dry place. It absorbs moisture & oxidizes if container is not kept tightly closed. If heated over 60°C, SO₂ is evolved, forming Sodium Sulphite.

For more information kindly refer to the Material Safety Data Sheet.

MAJOR APPLICATIONS OF SODIUM METABISULPHITE:

- Photographic Industry for production of developer Solution / Acidizing Fixation Baths.
- Chemical synthesis in the production of Sulphonates, Resins, Iodine & Acrylic Fibres.
- Purification of Aldehydes & Ketones.
- Food Industry as: 1. Preservative (Dehydrated foods, Shrimps, Meat etc), 2. Anti-browning, 3. Anti-fermentation & 4. Bleaching.
- Effluent water-treatment to remove excess Chlorine & detoxification of Chromic acid in electroplating industries.
- Pulp and Paper for De-lignification and Textile as Bleaching Agent, Anti-Chlor and Anti peroxides.
- Tanneries as an Auxiliary in Decalcification & Bleaching Process.
- Starch Production as bleaching agent & bactericidal.
- Mining Industry as Floating agent., cyanide detoxification
- Processing of Latex as preservative & Bleaching agent.
- Steam boiler & drilling water as a oxygen scavenger.
- Manufacturing of Indigo Vats dyes.
- Reverse Osmosis as antichlor
- Medical as manufacturing of anti oxidant drugs
- Brewing as bactericidal

This Technical data sheet Identified as TDS / SM / 0803. Cancels & replaces all previous editions.

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Grade	:	Food
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Appearance	:	White free flowing crystals
Appearance of 20% Solution:	Clear & Colorless or Pale yellow.	
CAS NO	:	7681-57-4

Specification:

Assay	% w/w	97.0 Min.	Iron (as Fe)	ppm	5 Max.
SO ₂	%	65.3 Min.	Heavy Metals. (as Pb)	ppm	10 Max.
Sulphate	% w/w	2.5 Max.	Selenium (as Se)	ppm	3 Max.
Insolubles	% w/w	0.1 Max.	Arsenic (as As)	ppm	1 Max.
pH of 5% Solution @25°C		4.0 - 4.8	Copper	ppm	2 Max.
Chloride as NaCl	ppm	50 Max.	Zinc	ppm	2 Max.

Specs. Conforming to ANSI PH4 276:1980,

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MAJOR APPLICATIONS OF SODIUM METABISULPHITE:

- Food Industry as: 1. Preservative (Dehydrated foods, Shrimps, Meat etc), 2. Anti-browning, 3. Anti-fermentation & 4. Bleaching.
- Photographic Industry for production of developer Solution / Acidizing Fixation Baths.
- Chemical synthesis in the production of Sulphonates, Resins, Iodine & Acrylic Fibres.
- Purification of Aldehydes & Ketones.
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CAS NO	:	7681-57-4

Specification:

Assay	% w/w	96.0	Min.
SO ₂	%	64.6	Min.
Sulphate	% w/w	balance	
Insolubles	% w/w	0.1	Max.
Iron (as Fe)	ppm	10	Max
pH of 5% Solution@25°C		4.0 - 4.8	

Specs. Conforming to ANSI PH4 276:1980,

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