



Sodium Metasilicate Anhydrous

CAS No.: 6834-92-0

Formula: Na_2SiO_3

DESCRIPTION

Sodium Metasilicate Anhydrous is a free-flowing, water-soluble beaded powder with a silica-to-soda ratio of 1. It is manufactured by melting high-purity sand and soda ash to form sodium silicate glass, followed by controlled crystallization. The product is highly alkaline, hygroscopic, and deliquescent, making it an effective dispersant, corrosion inhibitor, and cleaning aid. It enhances soil suspension in detergent systems, acts as a binder and coagulant, and provides excellent compatibility with surfactants and builders.

KEY FEATURES

- Highly alkaline, anhydrous form with strong cleaning and degreasing properties
- Excellent water softening, dispersing, and emulsifying agent
- Functions as a corrosion inhibitor in metal cleaning formulations
- High active content and low moisture for efficient dry blending
- Used in industrial cleaners, detergents, ceramics, and water treatment products

APPLICATIONS

- Oilfield cementing as an alkaline accelerator and slurry stabilizer
- Industrial and institutional cleaning products as a builder and corrosion inhibitor
- Wastewater treatment as a coagulant and pH modifier
- Drymix formulations, sealants, and adhesives as a binder or hardening aid
- Metal cleaning and surface treatment systems for enhanced wetting and suspension control

TYPICAL SPECIFICATIONS

Parameter	Specification
Na_2O	49 – 51%
SiO_2	45 – 47%
H_2O	< 3%
Density (approx.)	1.09 g/cm ³
Particle Size (16–48 mesh)	93%
Melting Point	≥ 1070°C
Rate of Solution (5 wt% at 70°F)	75 – 85 sec





**LIMITED WARRANTY INFORMATION.
PLEASE READ CAREFULLY.**

Chemport Pty Ltd provides the information contained in this document in good faith based on the best knowledge available at the time of publication. While we believe the information to be accurate and reliable, it is intended for general guidance only and is provided without warranty of any kind, express or implied.

Users are solely responsible for determining the suitability of this product for their specific application and for ensuring compliance with all relevant regulations, industry standards, and intellectual property rights. The product must not be used in violation of any law, statute, or third-party rights.

Chemport Pty Ltd shall not be liable for any direct, indirect, or consequential loss or damage arising from the use of this product or reliance on the information provided in this document. Users should refer to the current Safety Data Sheet (SDS) and perform their own evaluations, including any necessary testing, to confirm the product's suitability for use in their particular conditions.

This document is subject to revision without notice as new data becomes available.

TECHNICAL SUPPORT
+61294103317
info@chemport.com.au

Level 9 Tower A
821 Pacific Highway
Chatswood NSW 2067
Australia
chemport.com.au

PACKAGING

- 25 kg bags
- Bulk packaging
- Other sizes may be available upon request.

SHELF LIFE

Shelf life is at least 12 months under normal storage conditions.

STORAGE

Store in a cool, dry place away from moisture and direct sunlight.
Due to its hygroscopic nature, packaging should remain sealed until use.

SAFETY & HANDLING

Avoid contact with eyes and skin. Use gloves, goggles, and dust masks when handling the product.

Avoid inhalation of dust and ensure good ventilation.

Refer to the Safety Data Sheet (SDS) for full information on handling, first aid, and disposal procedures.