

NS6130-12-001531

Quick Facts

Product	:	Tricalcium Aluminate Submicron MTA
Stock No	:	NS6130-12-001531
CAS	:	12042-78-3
Molecular Formula	:	$\text{Ca}_3\text{Al}_2\text{O}_6$, or $3\text{CaO} \cdot \text{Al}_2\text{O}_3$
Purity	:	99.9%

TRICALCIUM ALUMINATE

Submicron MTA

Purity
99.9%

Technical Specification

Molecular Weight	Density	APS
270.193g/mol	3.06g/cm ³	<1um

Mineral trioxide aggregate (MTA) was developed for use as a dental root repair material by Mahmoud Torabinejad. MTA is composed of tricalcium silicate, dicalcium silicate, tricalcium aluminate, tetracalcium aluminoferrite, calcium sulfate, and bismuth oxide. Tricalcium aluminate $\text{Ca}_3\text{Al}_2\text{O}_6$, often formulated as $3\text{CaO} \cdot \text{Al}_2\text{O}_3$ to highlight the proportions of the oxides from which it is made, is the most basic of the calcium aluminates.

Tricalcium Aluminate Submicron MTA has several applications primarily in the field of construction and building materials due to its reactivity and properties. Tricalcium aluminate is used in the formulation of specialized mortars and grouts for various construction and repair applications. Tricalcium Aluminate Submicron used in applications requiring rapid hardening and resistance to chemical corrosion, such as industrial floors, marine environments, and refractory castables.



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