

TECHNICAL DATA SHEET

Product:	GROUND COLEMANITE
Supplier:	Etimine USA, Inc.
Synonyms:	Hydrous calcium borate, Neocolmanite, Colemanite powder, Colemanita, Colemanit
CAS#	1318-33-8
Formula:	$2\text{CaO}\cdot 3\text{B}_2\text{O}_3\cdot 5\text{H}_2\text{O}$ or $\text{Ca}_2\text{B}_6\text{O}_{11}\cdot 5(\text{H}_2\text{O})$ or $\text{CaB}_3\text{O}_4(\text{OH})_3\cdot \text{H}_2\text{O}$
Product Description:	Commonly available in distinct transparent crystalline forms. They can also be thin, platy and brittle. Ground Colemanite is reddish-grey greyish white powder. Ground Colemanite is available in two different fineness, Standard and Fine. Nominal chemical composition of Colemanite is: $\text{B}_2\text{O}_3 = 50.9\%$, $\text{CaO} = 27.2\%$ and $\text{H}_2\text{O} = 21.9\%$.
Packaging:	Available in 1 Ton Bulk Bags and loose bulk
Applications:	<ul style="list-style-type: none">- Non-sodium fiberglass industry- Raw lead glazes,- Manufacture of heat resistant glass,- Cleaning agent,- Low temperature flux which helps to prevent crazing,- Opacifier,- As a substitute for calcium in glazes- Various small industrial, medicinal, and cosmetics applications.
Precautions:	It is advised to store ground Colemanite under dry, cool and steady temperature conditions. Storing bulk bags under hot and humid conditions may cause caking.

Typical properties of Ground Colemanite are as follows:

Component	Unit	Typical Value
B₂O₃	%	40.0
CaO	%	26.8
SiO₂	%	5.0
SO₄	%	0.3
As	ppm	25
Fe₂O₃	%	0.04
Al₂O₃	%	0.25
MgO	%	2.7
SrO	%	1.15
Na₂O	%	0.15
LOI	%	24.0
Moisture	%	0.3

Dry Sieve Analysis				
			Standard	Fine
Size	US Mesh	Unit	Typical Value	Typical Value
(+)600 µm	+ 30	%	0.00	-
(+)250 µm	+ 60	%	0.2	0.00
(-)45 µm	- 325	%	76.00	84.00

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