

TECHNICAL DATA SHEET

Product:	GROUND COLEMANITE
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	Specification	Typical Value
B ₂ O ₃	%	40±0.5	40.0
CaO	%	27±1	26.8
SiO ₂	%	4.00-6.50 %	5.0
SO ₄	%	0.6 max	0.3
As	ppm	35 max	25
Fe ₂ O ₃	%	0.08 max	0.04
Al ₂ O ₃	%	0.4 max	0.25
MgO	%	3.0 max	0.2
SrO	%	1.5 max	1.15
Na ₂ O	%	0.5 max	0.15
LOI	%	25 max	24.0
Moisture	%	1 max	0.3
Bulk Density	Ton/m ³	1 max	1.0

Dry Sieve Analysis						
Size	US Mesh	Unit	Standard		Fine	
			Specification	Typical Value	Specification	Typical Value
(+)600 µm	+ 30	%	-	0.00	-	-
(+)250 µm	+ 60	%	-	0.20	-	0.00
(+)150 µm	+100	%	0.5 max	0.25	0.25 max	0.10
(-)75 µm	- 200	%	82.00 min	90	-	95.0
(-)45 µm	- 325	%	-	76.00	75.00 min	84.00

This TDS is to provide all necessary information about the product that customers must be aware of. However, excepting the given specifications, other information provided in this TDS do not form part of any selling specification. Information contained in this TDS is correct to the best of ETIMINE's knowledge and understanding based on available information. However, no warranty of merchantability or any other warranty, expressed or implied, with respect to such information can be made, and no liability resulting from its use can be assumed. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ETIMINE USA, INC be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ETIMINE USA has been advised of the possibility of such damages.