

## TECHNICAL DATA SHEET

<b>Product:</b>	<b>GROUND COLEMANITE</b>
<b>Synonyms:</b>	Hydrous calcium borate, Neocolmanite, Colemanite powder, Colemanita, Colemanit
<b>CAS#</b>	1318-33-8
<b>Formula:</b>	$2\text{CaO} \cdot 3\text{B}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$ or $\text{Ca}_2\text{B}_6\text{O}_{11} \cdot 5(\text{H}_2\text{O})$ or $\text{CaB}_3\text{O}_4(\text{OH})_3 \cdot \text{H}_2\text{O}$
<b>Product Description:</b>	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 $\text{H}_2\text{O} = 21.9\%$ .
<b>Packaging:</b>	Available in 1 Ton Bulk Bags and loose bulk
<b>Applications:</b>	<ul style="list-style-type: none"><li>- Non-sodium fiberglass industry</li><li>- Raw lead glazes,</li><li>- Manufacture of heat resistant glass,</li><li>- Cleaning agent,</li><li>- Low temperature flux which helps to prevent crazing,</li><li>- Opacifier,</li><li>- As a substitute for calcium in glazes</li><li>- Various small industrial, medicinal, and cosmetics applications.</li></ul>
<b>Precautions:</b>	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 <sub>2</sub> O <sub>3</sub>	%	40±0.5	40.0
CaO	%	27±1	26.8
SiO <sub>2</sub>	%	4.00-6.50 %	5.0
SO <sub>4</sub>	%	0.6 max	0.3
As	ppm	35 max	25
Fe <sub>2</sub> O <sub>3</sub>	%	0.08 max	0.04
Al <sub>2</sub> O <sub>3</sub>	%	0.4 max	0.25
MgO	%	3.0 max	0.2
SrO	%	1.5 max	1.15
Na <sub>2</sub> O	%	0.5 max	0.15
LOI	%	25 max	24.0
Moisture	%	1 max	0.3
Bulk Density	Ton/m <sup>3</sup>	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

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