

Colemanite 45 Micron Ground

Calcium borate, di-calcium hexaborate pentahydrate

Colorless to white crystalline material

$2\text{CaO} \cdot 3\text{B}_2\text{O}_3 \cdot 5\text{H}_2\text{O}$

CAS Number: 1318-33-8

CHEMICAL SPECIFICATION			
Component	Unit	Content	Typical
B ₂ O ₃	%	39.50 – 40.50	40.00
CaO	%	26.00 – 28.00	26.54
Na ₂ O	%	0.50	0.10
SO ₄	%	0.60	0.25
MgO	%	3.00	2.90
SiO ₂	%	4.00 - 6.50	5.50
SrO	%	1.50	1.09
Fe ₂ O ₃	%	0.08	0.06
Al ₂ O ₃	%	0.40	0.32
As	ppm	35.00	29.00
L.O.I.	%	25.00	23.58
Moisture	%	1.00	0.40

PHYSICAL SPECIFICATIONS			
Mesh Size	Unit	Content	Typical
+ 100 mesh	%	0.25 max	0.00
- 325 mesh	%	75.00 min	80.00

Other Properties

- Melting Point* : 930°C (*Pure Colemanite)
- Solubility in Water: 0.81% by weight @ 20°C of a saturated solution
- pH: 9.5 (1.0% solution @ 20°C)
- Aprox. Bulk Density: 55 lbs/ft³
- Decomposition: Dehydration begins 105 °C

Packaging

Colemanite (45 micron) is available in bulk, in 1 MT (2,205 lb.) super sacks and in 25 kg net (55.1 lb. net) multiwall paper bags. Custom packaging is available.