

## Ulexite 45 Micron Ground

Hydrated sodium calcium borate hydroxide

White to grey color, crystalline material of various shapes

$\text{Na}_2\text{O} \cdot 2\text{CaO} \cdot 5\text{B}_2\text{O}_3 \cdot 16\text{H}_2\text{O}$

CAS No. 1319-33-1\*

CHEMICAL SPECIFICATION			
Component	Unit	Content	Typical
$\text{B}_2\text{O}_3$	%	37.00 +/- 1.00	37.10
CaO	%	19.00 max	17.38
$\text{SiO}_2$	%	4.00 max	3.28
$\text{SO}_4$	%	0.25 max	0.01
As	ppm	40.00 max	38.00
$\text{Fe}_2\text{O}_3$	%	0.04 max	0.03
$\text{Al}_2\text{O}_3$	%	0.25 max	0.04
MgO	%	2.50 max	1.67
SrO	%	1.00 max	0.57
$\text{Na}_2\text{O}$	%	3.50 min	3.60
Moisture	%	1.00 max	0.50

PHYSICAL SPECIFICATION			
Mesh Size	Unit	Content	Typical
+ 100 mesh	%	0.25 max	0.15
-325 mesh	%	75.00 min	80.00

### Other Properties

- Melting Point\*: 870°C (\*Pure Ulexite)
- Solubility in Water: 26.67% as dissolved Ulexite @ 25°C by weight of solution
- pH: 8.5 (1.0% solution @ 20°C)
- Aprox. Bulk Density: 41 lbs/ft<sup>3</sup>
- Decomposition: Dehydration begins 45°C

### Packaging

Ulexite (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.

Specification data is determined by Eti Maden analytical methods  
 Issued 1/1/2016 Rev. 0