



TECHNICAL DATA SHEET

Product: **Ground Ulexite**

Synonym: Hydrated Sodium Calcium Borate Hydroxide

Chemical Formula: $\text{NaCaB}_5\text{O}_6(\text{OH})_6 \cdot 5\text{H}_2\text{O}$; or $\text{Na}_2\text{O} \cdot 2\text{CaO} \cdot 5\text{B}_2\text{O}_3 \cdot 16\text{H}_2\text{O}$

CAS No.: 1319-33-9

Product description: Ulexite is a white, free flowing granular material and is a naturally occurring borate ore.

Applications:

- Agriculture
- Fiberglass
- Glass
- Oilfield
- Ceramics
- Pulp and paper

Unique characteristic: Upon melting forms a clear melt with smooth flow properties. Preferred Ulexite product of the oilfield/shale gas industry. Ideal for direct use in glass and ceramic industries.

Typical properties of Ulexite are as follows:

Property		Typical Value	
Appearance		Powder	
Color		Greyish White	

Typical Composition	
B_2O_3	37.0%
CaO	18.0%
Na_2O	4.0%
SiO_2	3.0%
Al_2O_3	0.1%
SrO	0.6%



MgO		1.6%		
SO₄		0.2%		
Fe₂O₃		0.02%		
Loss On Ignition (LOI)		34.0%		
Moisture		0.2%		
Dry Sieve Analysis				
Metric	Mesh	Agriculture Grade (2-4 mm)	Standard Ground	Fine Ground
(+)3.36 mm	+6	0.0%	0.0%	0.0%
(+)1.19 mm	+16	100%	0.0%	0.0%
(+)600 µm	+30	N/A	0.0%	0.0%
(+)250 µm	+60	N/A	0.3%	0.0%
(-)45 µm	-325	N/A	76%	84%

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.