



# Pelletized LIME



**Pelletized lime** soil amendment derived from sugar beet lime by-product, sourced and produced in the Red River Valley of the North.

## Advantages

### Moisture Content Reduced to <10%

Reduced from approximately 30%

*Higher concentration  
of nutrients* = **Lower Use Rates**

### Ease of Application

(use of typical fertilizer spreader, air seeder, etc)



## Agronomic Benefits

- Improve the physical, chemical and biological properties of the soil
- Increase pH in acidic soils
- Reduce the effects of Aphanomyces (Root Rot)
- Promote better nitrogen fixation by legumes
- Increase the availability of nutrients to plants
- Reduce toxicities in the soil
- Enhance the effectiveness of some herbicides
- Excellent source of available calcium, magnesium, and minor amounts of the following nutrients: N, P, K, Zn, Fe, Cu, and B



## Packaging

- True Bulk (per US ton) F.O.B. | Crookston, MN



**For Product Information, Please Contact Us:**

218.752.5463 • 2100 S. Main St., Crookston, MN 56716 • [northstarlime.com](http://northstarlime.com)



## Pelletized Sugar Beet Lime Analysis

|                                           |                      |
|-------------------------------------------|----------------------|
| Product Density (Lb/ft3)                  | 63                   |
| Moisture                                  | <10%                 |
| Dry Matter                                | 90%                  |
| <b>Calcium (Ca)</b>                       | <b>34.60%</b>        |
| Calcium Carbonate (CaCO <sub>3</sub> )    | 86.40%               |
| <b>Magnesium (Mg)</b>                     | <b>1.60%</b>         |
| Magnesium Carbonate (MgCO <sub>3</sub> )  | 5.60%                |
| <b>Calcium Carbonate Equivalent (CCE)</b> | <b>74.2%</b>         |
| <b>Total Neutralizing Power (TNP)</b>     | <b>74.2%</b>         |
| <b>Fineness Index (FI)</b>                | <b>100%</b>          |
| <b>Effective Neutralizing Power (ENP)</b> | <b>1363.1 Lb/ton</b> |



### NLS Pelletized Sugar Beet Lime Adjusted Application Rate/ton of Recommended Standard Lime

Adjusted Lime Application Rate = Recommended Rate of Standard Lime x (2000/ENP)

|                 |          |
|-----------------|----------|
| <b>1.348</b>    | ton/acre |
| <b>2,695.42</b> | Lbs/acre |

### Average Estimated Nutrient Content\*

Total Nitrogen – .35%, Phosphate – 1.0%, Potash – .15%, Sodium – .024%, **Calcium – 34.6%**, **Magnesium – 1.6%**, Sulfur – .46%, Zinc – .09 Lb/ton, Iron – 4.3 Lb/ton, Manganese – .32 Lb/ton, Copper – .032 Lb/ton, Boron – .02 Lb/ton

|                      |          |                                               |                                    |                                    |          | Sieve Analysis (Passing Through) |        |        |                     |
|----------------------|----------|-----------------------------------------------|------------------------------------|------------------------------------|----------|----------------------------------|--------|--------|---------------------|
| Lime Type            | Location | Fineness Index (Effective Neutralizing Value) | CCE (Calcium Carbonate Equivalent) | ENP (Effective Neutralizing Power) | Moisture | US #8                            | US #20 | US #60 | Min. Lbs. ENP / Ton |
| NSL Pelleted         | MN       | 100                                           | 74.2%                              | 74.2%                              | <10%     | 100%                             | 100%   | 100%   | 1,363               |
| Beet Lime            | MN       | 100                                           | 78%                                | 77%                                | 30%      | 100%                             | 100%   | 100%   | 1,080               |
| Beet Lime            | ND       | 100                                           | 55%                                | 86%                                | 36%      | 100%                             | 100%   | 100%   | 1,101               |
| Quarry Screened Lime | MN       | 75                                            | 83%                                | 62%                                | 4%       | 98%                              | 80%    | 58%    | 1,191               |
| Quarry Screened Lime | IA       | 63                                            | 82%                                | 52%                                | 5%       | 92%                              | 65%    | 47%    | 978                 |
| Water Treatment Lime | MN       | 100                                           | 94%                                | 94%                                | 53%      | 100%                             | 100%   | 100%   | 893                 |
| Water Treatment Lime | SD       | 100                                           | 96%                                | 96%                                | 50%      | 100%                             | 100%   | 100%   | 967                 |
| Wood Ash             | MN       | 94                                            | 35%                                | 33%                                | 29%      | 99%                              | 98%    | 88%    | 475                 |
| Wood Ash             | MN       | 98                                            | 41%                                | 40%                                | 12%      | 100%                             | 100%   | 95%    | 700                 |
| Egg Shells           | IA       | 100                                           | 85%                                | 85%                                | 20%      | 100%                             | 100%   | 100%   | 1,360               |

Available from Minnesota Department of Agriculture – Ag Lime Analysis Results.

\*Nutrient content will vary slightly due to variations in sugar beet nutrient content.



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