

***NORTH STAR BLUESCOPE STEEL LLC* Material Specification**

Process Area: Melt Shop 1 & 2	Number: AL 36.12
Material: High Cal Lime	Effective Date: 05/16/25
Authorized By: Mike Wenzke	Review Date: 05/16/26

1.0 Application:

Furnace lime addition.

2.0 Chemical Analysis and Material Properties:

Element	Absolute min.	Preferred min.	Preferred max.	Absolute max.
CaO Total	95%			
CaO Available	92%			
Al ₂ O ₃				1.0%
MgO				3.0%
FeO				0.50%
SiO ₂				1.0%
S				0.05%
Loss on Ignition				1.75%

3.0 Packaging:

- 3.1 Bulk Dump Truck (Covered) - each shipment to be identified with lot number.
- 3.2 Bulk pneumatic Truck - each shipment to be identified with lot number.
- 3.3 4000 lb supersacks. Must be polymesh sacks with lifting loops at top 4 corners, no bottom spout (flat bottom) and no inner liner. Packages must be stenciled with the North Star BlueScope Raw Materials Number (AL36), bulk weight (lb) per package, and material name (abbreviated) when ordered this way. Super sacks must sit on pallets. The super sacks must sit inside the outer edge of all 4 sides of the pallet. NSBSL will not accept any pallets with overhanging super sacks.
- 3.4 Pallets must be made of high-quality lumber. Slat spacing must not allow for super sacks to fall between the slats. NSBSL will not accept pallets with broken slats.
- 3.5 The North Star BlueScope Steel Raw Material Number must appear on all shipping and billing paperwork.
- 3.6 Flatbed shipping only.

4.0 Sizing:

3/4" X 1/4"

5.0 Certification and Control:

- 5.1 Each lot received to include statements of conformity and certification. These documents must be handed in at the scales and include:
 - Certification for Sulfur, LOI and % >1/4"
 - Quantity
 - Name of Material
 - Lot Number
- 5.2 All chemical constituents not expressed but are contained in the subject material may not exceed 0.5% collectively. Any material lot exceeding 0.5% must have prior approval by purchasing before shipment is made and analysis included on certification.
- 5.3 Material is subject to inspection at North Star BlueScope Steel to test adherence to specification. Material submitted must undergo laboratory testing and operating trials prior to approval. All material supplied to this specification must be equivalent in all respects to the material on which approval was originally granted.

6.0 Relevant Industry Standards (e.g. ASTM):

N/A

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7.0 Hazardous Material:

If this material is hazardous or requires special handling or storage, this information must be clearly labeled on containers and shipping documents. MSDS Sheets must also be sent to the purchasing manager for new materials.

8.0 Attachments/Reference Documents:

N/A

Rev	Date	Description of change	Reason for change:
	01/04/17	Reviewed and Reauthorized	Annual Review
	01/16/18	Reviewed and Reauthorized	Annual Review
12	02/23/18	Updated Packaging section	Current procedure
	01/28/19	Reviewed and Reauthorized	Annual Review
	02/19/20	Reviewed and Reauthorized	Annual Review
	03/04/21	Reviewed and Reauthorized	Annual Review
	02/16/22	Reviewed and Reauthorized	Annual Review
	03/08/23	Reviewed and Reauthorized	Annual Review
	01/22/24	Reviewed and Reauthorized	Annual Review
	05/16/25	Reviewed and Reauthorized	Annual Review