NORTH STAR BLUESCOPE STEEL LLC Material Specification

| Process Area: LMF | Number: AL 16.15 |
|-------------------------------------|--------------------------|
| Material: Low Hydrogen Graphite (C) | Effective Date: 05/12/25 |
| Authorized By: Tony Spadafore | Review Date: 05/12/26 |

1.0 Application:

Ladle addition for alloying purposes.

2.0 Chemical Analysis and Material Properties:

| Element | Absolute min. | Preferred min. | Preferred max. | Absolute max. |
|----------|---------------|----------------|----------------|---------------------|
| Carbon | 97.0% | | | |
| Ash | | | | 2.0% |
| Moisture | | | | 0.2% |
| Nitrogen | | | | 0.4% or 4000ppm |
| Sulfur | | | | 0.6% |
| Hydrogen | | | | 0.00100% or 100 ppm |

3.0 Packaging:

- 3.1 50lb bags 2500lb. per pallet when ordered this way must be shipped on flatbed truck each shipment to be identified with lot number. Pallets shall have horizontal slats that extend beyond the vertical 2x4 members (wings) to facilitate lifting via pallet chain lifting rig.
- 3.2 2500 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 (AL16), 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 over hanging super sacks
- 3.3 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.
- 3.4 The North Star BlueScope Steel Raw Material Number must appear on all shipping and billing paperwork.
- 3.5 Flatbed shipping only

4.0 Sizing:

10 mesh by 80 mesh with less than 2% above or below

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 Carbon, Nitrogen, Sulfur
 - Quantity
 - Name of material
 - Lot number
- 5.1 All chemical constituents not expressed but are contained in the subject material may not exceed 1.0% collectively. Any material lot exceeding 0.5% must have prior approval by purchasing before shipment is made and analysis included on certification.
- 5.2 Material is subject to inspection at North Star BlueScope Steel to test adherence to specification.
- 5.3 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

7.0 Hazardous Material:

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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 purchasing manager for new materials.

8.0 Attachments/Reference Documents:

N/A

Rev Date Description of change Reason for change:

| 110 | Dutt | Description of change | reason for change. |
|-----|----------|--|----------------------------------|
| 13 | 09/24/07 | Revised location control. | Annual review. |
| | 11/14/08 | Reviewed and reauthorized. | Annual review. |
| | 11/17/09 | Reviewed and reauthorized. | Annual review. |
| | 12/02/10 | Reviewed and reauthorized | Annual review |
| | 12/07/11 | Reviewed and reauthorized | Annual review |
| | 12/14/12 | Reviewed and reauthorized | Annual review |
| | 12/17/13 | Reviewed and reauthorized | Annual review |
| | 11/20/14 | Reviewed and reauthorized | Annual review |
| 14 | 4/17/15 | Added Hydrogen Spec and loosened nitrogen, | This Spec is required for summer |
| | | carbon, and sulfur. Changed title to "Low | ladle carbon blend. |
| | | Hydrogen Graphite" from "Graphite" | |
| | 03/07/16 | Reviewed and reauthorized | Annual review |
| | 02/27/17 | Reviewed and reauthorized | Annual review |
| 15 | 02/23/18 | Updated Packaging section | Current procedure |
| | 01/28/19 | Reviewed and reauthorized | Annual review |
| | 03/09/20 | Reviewed and reauthorized | Annual review |
| | 04/23/21 | Reviewed and reauthorized | Annual review |
| | 04/12/22 | Reviewed and reauthorized | Annual review |
| | 03/07/23 | Reviewed and reauthorized | Annual review |
| | 04/11/24 | Reviewed and reauthorized | Annual review |
| | 05/12/25 | Reviewed and reauthorized | Annual review |
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