

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

Process Area: EAF	Number: AL 24.14
Material: Metallurgical Coke	Effective Date: 12/07/11
Authorized By: John Ruf	Review Date: 12/07/12

**1.0 Application:**

EAF processing addition.

**2.0 Chemical Analysis and Material Properties:**

Element	Absolute min.	Preferred min.	Preferred max.	Absolute max.
Carbon	85%			
Sulfur				1.70%
Moisture				2.0%
Volatile				3.0%
Ash				13.0%

**3.0 Packaging:**

- 3.1 Bulk delivered in pneumatic tanker truck - each shipment to be identified with lot number.
- 3.2 Supersacks - 3000lb. per supersack - must be shipped on flatbed truck tarped and dry - each shipment to be identified with lot number
- 3.3 The North Star BlueScope Steel Raw Material Number must appear on all shipping and billing paperwork.

**4.0 Sizing:**

9/16 in. by 13/16 in.

**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 and Sulfur.
  - Quantity
  - Name of material
  - Lot number
- 5.1 All chemical constituents not expressed but are contained in the subject material may not exceed 0.5% (except for Al) 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. 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:**

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:
13	10/29/09	Increased allowable S from 1% to 1.49%.	To allow Pet Coke
	11/17/09	Reviewed and reauthorized	Annual review
14	03/17/10	Update Sulf spec to 1.7%	To allow carbon anodes
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12/02/10 Reviewed and reauthorized

Annual review

12/07/11 Reviewed and reauthorized

Annual review