

NORTH STAR BLUESCOPE STEEL LLC Material Specification

Process Area: Melt Shop EAF	Number: AL 13.08
Material: Charge Carbon	Effective Date: 7/31/03
Authorized By: Rex McClanahan	Review Date: 7/31/04

1.0 Application:

EAF Processing addition.

2.0 Chemical Analysis and Material Properties:

	Absolute min.	Preferred min.	Preferred max.	Absolute max.
Carbon	80.0%			
Sulfur				1.5%
Moisture				2.0%
Volatile				3%
Ash				10%

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 when ordered this way - 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:

- 4.1 Nut

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:
 - 1) Certification for Carbon and Sulfur.
 - 2) Quantity
 - 3) Name of material
 - 4) Lot number
- 5.1 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.
- 5.2 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:

- 7.1 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(s)	Reason for Change:
1.	5/21/98	Changed footer and added revision level	To comply with QP
2.	10/1/98	Added elements to certify	New practice
3.	12/22/99	Under 3.0, added that NSBHP Raw Material Number must be on all shipping and billing paperwork	For clarification purposes
4.	1/17/01	Reviewed and re-authorized	Annual Review
5.	3/15/01	Revised max moisture spec from 1% to 2% max	Update to current practice
6.	3/22/02	Reviewed and re-authorized	Annual Review
7.	3/20/03	Reviewed and re-authorized	Annual Review
8.	7/31/03	Changed Absolute min on Carbon from 85% to 80%	Update to current practice

Prepared by: Rex McClanahan	Page 1 of 1
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