

NORTH STAR BLUESCOPE STEEL LLC**Material Specification**

Process Area: LMF	Number: AL 47.05
Material: Electrolytic Nickel	Effective Date: 12/07/11
Authorized By: John Ruf	Review Date: 12/07/12

1.0 Application:

Ladle addition for alloying purposes.

2.0 Chemical Analysis and Material Properties:

Element	Absolute min.	Preferred min.	Preferred max.	Absolute max.
Nickel	99.9%			
Fe, Si, S, C, Pb, Cu				.1%

3.0 Packaging:

- 3.0 10 kg (all sizing / forms) poly-mesh bags in 55 gal. drums with bottom spacers (for moisture drainage), banded to winged pallets for lifting with pallet bars / chains.
- 3.1 The North Star BlueScope Steel Raw Material Number must appear on all shipping and billing paperwork.
- 3.2 Shipped on flatbed or loaded for tailgate delivery from van.

4.0 Sizing:

- 4.1 2" x 2" X ½" plate
- 4.2 Pellets
- 4.3 Molten Splatter

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 Nickel
 - Quantity
 - Name of material
 - Lot number
 - North Star BlueScope Steel Material 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:

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:
05	06/10/08	Added usable physical forms and updated package requirements	To have more usable forms and eliminate condensation / moisture issues during winter
Prepared by: Kevin Jessing			Page 1 of 2

This document is controlled electronically in SharePoint ISO Standards Documents and a hard copy form with the S.A.O. All other copies are uncontrolled.

NORTH STAR BLUESCOPE STEEL LLC**Material Specification**

Process Area: LMF	Number: AL 47.05
Material: Electrolytic Nickel	Effective Date: 12/07/11
Authorized By: John Ruf	Review Date: 12/07/12

11/14/08 Reviewed and reauthorized.
11/17/09 Reviewed and re-authorized
12/02/10 Reviewed and reauthorized
12/07/11 Reviewed and reauthorized

storage and usage near LMF furnaces
Annual review.
Annual review
Annual review
Annual review