

NORTH STAR BLUESCOPE STEEL LLC Material Specification

Process Area: Melt Shop LMF	Number: AL 47.01
Material: Electrolytic Nickel	Effective Date: 5/14/04
Authorized By: John Ruf	Review Date: 5/14/05

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 (both forms) contained bags in 55 gal. drums, banded to winged pallets for lifting with pallet bars / chains.
- 3.1 The NSBHP 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

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 Nickel
 - 2) Quantity
 - 3) Name of material
 - 4) Lot number
 - 5) NSBHP 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 NSBHP Steel Ltd. 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	5/14/04	Reviewed and re-authorized	Annual reiew