

NORTH STAR BLUESCOPE STEEL LLCMaterial Specification

Process Area: LMF	Number: AL 35.13
Material: Ferrosilicon (FeSi)	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.
Silicon	74.0%			79.0%
Aluminum				1.50%
Phosphorous				0.05%
Sulfur				0.05%
Carbon				0.30%
Iron	18%			26.0%
Manganese				1.00%

3.0 Packaging:

- 3.1 Bulk Dump Truck, trucks must be tarped and material dry - each shipment to be identified with lot number.
- 3.2 Supersacks - one 3000lb. per pallet must be shipped on flatbed truck - each shipment to be identified with lot number
- 3.3 10 kg. bags 3000 lbs/pallet must be shipped on flatbed trucks - 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, when ordered this way.
- 3.4 Individual 10 kg. bags must be labeled with North Star BlueScope Raw Material Number (AL 35), material name (abbreviated), and material weight (in kg.).
- 3.5 The North Star BlueScope Steel Raw Material Number must appear on all shipping and billing paperwork.

4.0 Sizing:

2" x ½" 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 Aluminum, Carbon, Phosphorous, Sulfur, and Silicon.
 - 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.
- 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.

Prepared by: Kevin Jessing	Page 1 of 2
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8.0 Attachments/Reference Documents:

N/A

Rev	Date	Description of change	Reason for change:
	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
	10/22/15	Reviewed and reauthorized	Annual review
	01/04/17	Reviewed and reauthorized	Annual review
	01/16/18	Reviewed and reauthorized	Annual review
	01/08/19	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