

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

Process Area: LMF	Number: AL 20.13
Material: Aluminum Wire	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.
Aluminum	99.0%			
Silicon				1.00%
Iron				1.00%
Magnesium				0.05%
Copper				0.25%
Zinc				0.25%
Tensile Strength (coil average)	18,000 psi			21,000 psi

### **3.0 Packaging:**

- 3.1 Horizontal payoff container- must be shipped on flatbed truck - each shipment to be identified with lot number
- 3.2 Each cage must include a label indicating the material name "Aluminum Wire." This label must be able to withstand the weather.
- 3.3 The North Star BlueScope Steel Raw Material Number must appear on all shipping and billing paperwork.
- 3.4 Each cage must include a splice on each end of the wire.
- 3.5 Do not exceed 3000 lbs cages (net weight).

### **4.0 Sizing:**

1/2" diameter wire - 0.20 lbs. per foot of wire

### **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, Copper, Silicon, Magnesium, and Zinc.
  - Quantity
  - Name of material
  - Lot number
  - Average Tensile strength (each coil)
- 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. 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

<b>Rev</b>	<b>Date</b>	<b>Description of change</b>	<b>Reason for change:</b>
	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
12	10/14/22	Updated packaging section to include better labeling and a way to splice cages together.	Current Practice
13	01/15/24	Updated packaging section to exclude cages exceeding 3000 lbs	Current Practice
	05/12/25	Reviewed and reauthorized	Annual review