

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

Process Area: LMF	Number: AL 22.14
Material: Calcium Wire (Ca)	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.
Ca	98.5%			
Al				0.750%
Mg				0.750%

## **3.0 Packaging:**

- 3.1 Horizontal payoff container- must be shipped on flat bed truck - each shipment to be identified with lot number
- 3.2 Each cage must include a label indicating the material name "Calcium Wire." This label must be placed under saran wrap so that the label is still present when the saran wrap is removed.
- 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 at each end to allow us to splice cages together to avoid wasting calcium wire.

## **4.0 Sizing:**

9mm diameter cored wire with single wall steel casing - 0.046 lbs. of Calcium 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 Calcium.
  - 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.

## **8.0 Attachments/Reference Documents:**

N/A

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

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	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
14	10/14/23	Updated packaging section to include better labeling and a way to splice cages together.	Current Practice
	01/15/24	Reviewed and reauthorized	Annual review
	05/12/25	Reviewed and reauthorized	Annual review