

NORTH STAR BLUESCOPE STEEL LLC Material Specification

Process Area: LMF	Number: AL 21.12
Material: Graphite Wire (C)	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.
Carbon	98.0%			
Sulfur				0.05%

3.0 Packaging:

- 3.1 Horizontal payoff container approx. 2100lb. per coil - must be shipped on flat bed truck - each shipment to be identified with lot number
- 3.2 The North Star BlueScope Steel Raw Material Number must appear on all shipping and billing paperwork.

4.0 Sizing:

21mm diameter cored wire with .022" steel casing - 0.213lb of graphite 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 Carbon and Sulfur.
 - 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:
	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
	05/15/25	Reviewed and reauthorized	Annual review

Prepared by: Kevin Jessing	Page 1 of 1
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