

REF./L: 81136255  
 Date: 02/10/2023  
 Customer: 1746



Atlas Tube (U.S.) Inc.  
 13101 Eckles Road  
 Plymouth Michigan USA  
 48170  
 Tel: 313-454-5600  
 Fax: 313-454-1474

**MATERIAL TEST REPORT**

Material: 3.0x3.0x188x42'0"0(7x3).  
 Sales Order: 1875451  
 Material No: 30030188  
 Purchase Order: SSM132469  
 Heat No: C Mn P S Si Sulfur Ti B N Ca  
 42300420 0.180 0.700 0.011 0.002 0.020 0.028 0.090 0.090 0.001 0.020 0.040 0.050 0.001 0.000 0.0001 0.0080 0.0020  
 Bundle No: PCS 21 Yield 058419 Psi 064980 Psi Eln.2in 32.6 %  
 M301372013  
 Heat: MILL SDI Mill Location Butler,IN  
 42300420 SDI  
 Material Note:  
 Sales Or. Note:

Made in: USA  
 Melted and Poured in: USA

CE: 0.32  
 % Harvested 99%  
 Within Miles of Location 500

Pre-Consumer (Post Industrial) 9.00 %  
 Post Consumer 80.00%  
 Method Recycled Content EAF 89.00%  
 Certification  
 ASTM A500-21 GRADE B&C

Material: 3.0x3.0x188x42'0"0(7x3).  
 Sales Order: 1875451  
 Material No: 30030188  
 Purchase Order: SSM132469  
 Heat No: C Mn P S Si Sulfur Ti B N Ca  
 42300420 0.180 0.700 0.011 0.002 0.020 0.028 0.090 0.090 0.001 0.020 0.040 0.050 0.001 0.000 0.0001 0.0080 0.0020  
 Bundle No: PCS 21 Yield 058419 Psi 064980 Psi Eln.2in 32.6 %  
 M301372014  
 Heat: MILL SDI Mill Location Butler,IN  
 42300420 SDI  
 Material Note:  
 Sales Or. Note:

Made in: USA  
 Melted and Poured in: USA

CE: 0.32  
 % Harvested 99%  
 Within Miles of Location 500

Pre-Consumer (Post Industrial) 9.00 %  
 Post Consumer 80.00%  
 Method Recycled Content EAF 89.00%  
 Certification  
 ASTM A500-21 GRADE B&C

*Jason Richard*  
**Jason Richard**

Authorized by quality Assurance:  
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 CE calculated using the AWS D1.1 method. This document is in compliance with the requirements of EN 10204 type 3.1



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**MATERIAL TEST REPORT**

Material: 3.0x3.0x188x42'0"0(7x3).  
 Sales Order: 1875451  
 Material No: 30030188  
 Purchase Order: SSW132469  
 Made in: USA  
 Melted and Poured in: USA

| Heat No          | C          | Mn           | P              | S              | Si            | Al                      | Cu                   | Cb                  | Mo                                    | Ni                 | Cr                              | V               | Ti    | B      | N      | Ca     |
|------------------|------------|--------------|----------------|----------------|---------------|-------------------------|----------------------|---------------------|---------------------------------------|--------------------|---------------------------------|-----------------|-------|--------|--------|--------|
| 42300420         | 0.180      | 0.700        | 0.011          | 0.002          | 0.020         | 0.028                   | 0.090                | 0.001               | 0.020                                 | 0.040              | 0.050                           | 0.001           | 0.000 | 0.0001 | 0.0080 | 0.0020 |
| <u>Bundle No</u> | <u>PCS</u> | <u>Yield</u> | <u>Tensile</u> | <u>Eln.2in</u> | <u>Method</u> | <u>Recycled Content</u> | <u>Post Consumer</u> | <u>Pre-Consumer</u> | <u>Pre-Consumer (Post Industrial)</u> | <u>% Harvested</u> | <u>Within Miles of Location</u> | <u>CE: 0.32</u> |       |        |        |        |
| M301372012       | 21         | 058419 Psi   | 064980 Psi     | 32.6 %         | EAF           | 89.00%                  | 80.00%               | 9.00 %              | ASTM A500-21 GRADE B&C                | 99%                | 500                             |                 |       |        |        |        |

Material Note:  
 Sales Or. Note:

Material: 3.0x3.0x188x42'0"0(7x3).  
 Sales Order: 1875451  
 Material No: 30030188  
 Purchase Order: SSW132469  
 Made in: USA  
 Melted and Poured in: USA

| Heat No          | C          | Mn           | P              | S              | Si            | Al                      | Cu                   | Cb                  | Mo                                    | Ni                 | Cr                              | V               | Ti    | B      | N      | Ca     |
|------------------|------------|--------------|----------------|----------------|---------------|-------------------------|----------------------|---------------------|---------------------------------------|--------------------|---------------------------------|-----------------|-------|--------|--------|--------|
| 42300420         | 0.180      | 0.700        | 0.011          | 0.002          | 0.020         | 0.028                   | 0.090                | 0.001               | 0.020                                 | 0.040              | 0.050                           | 0.001           | 0.000 | 0.0001 | 0.0080 | 0.0020 |
| <u>Bundle No</u> | <u>PCS</u> | <u>Yield</u> | <u>Tensile</u> | <u>Eln.2in</u> | <u>Method</u> | <u>Recycled Content</u> | <u>Post Consumer</u> | <u>Pre-Consumer</u> | <u>Pre-Consumer (Post Industrial)</u> | <u>% Harvested</u> | <u>Within Miles of Location</u> | <u>CE: 0.32</u> |       |        |        |        |
| M301372010       | 21         | 058419 Psi   | 064980 Psi     | 32.6 %         | EAF           | 89.00%                  | 80.00%               | 9.00 %              | ASTM A500-21 GRADE B&C                | 99%                | 500                             |                 |       |        |        |        |

Material Note:  
 Sales Or. Note:

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**MATERIAL TEST REPORT**

Material: 3.0x3.0x188x42.0\*0(7x3).  
 Sales Order: 1875451  
 Heat No: C 0.180  
 Mn 0.700 P 0.011 S 0.002 Si 0.020  
 Yield 058419 Psi  
 Tensile 064980 Psi  
 Eln.2in 32.6 %  
 Method Recycled Content 89.00%  
 EAF  
 Post Consumer 80.00%  
 Pre-Consumer (Post Industrial) 9.00 %  
 Certification  
 ASTM A500-21 GRADE B&C  
 CE: 0.32  
 Made in: USA  
 Melted and Poured in: USA  
 V 0.001 Ti 0.000 Cr 0.050 Ni 0.040 Mo 0.020  
 Within Miles of Location 500

Material: 6.0x3.0x375x40.0\*0(3x1).  
 Sales Order: 1869013  
 Heat No: C 0.190  
 Mn 0.780 P 0.008 S 0.014 Si 0.010  
 Yield 066080 Psi  
 Tensile 072466 Psi  
 Eln.2in 33.6 %  
 Method Recycled Content 36.90%  
 BOF  
 Post Consumer 19.80%  
 Pre-Consumer (Post Industrial) 14.40 %  
 Certification  
 ASTM A500-21 GRADE B&C  
 CE: 0.34  
 Made in: Canada  
 Melted and Poured in: Canada  
 V 0.002 Ti 0.002 Cr 0.063 Ni 0.024 Mo 0.018  
 Within Miles of Location 1000

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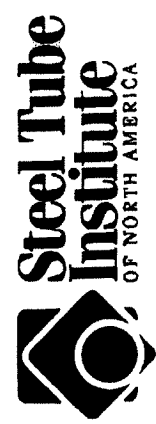
MATERIAL TEST REPORT

|                 |   |               |                 |           |        |                       |               |              |
|-----------------|---|---------------|-----------------|-----------|--------|-----------------------|---------------|--------------|
| Material:       | 12.0x6.0x250x28'0"0(1x1)REC                                   |               | Material No:    | 120060250 |        | Made in:              | Canada        |              |
| Sales Order:    | 1878614   |               | Purchase Order: | SSW132469 |        | Melted and Poured in: | Canada        |              |
| Heat No         | C   | Mn            | P               | S         | Si     | S                     | Al            | Cu           |
| 855699          | 0.200   | 0.830         | 0.010           | 0.007     | 0.015  | 0.007                 | 0.040         | 0.055        |
| Bundle No       | PCS   | Yield         | Tensile         | Eln.Zin   | Method | Recycled Content      | Post Consumer | Pre-Consumer |
| M201652793      | 1   | 063485 Psi    | 075512 Psi      | 30.0 %    | BOF    | 36.90%                | 19.80%        | 14.40%       |
| Heat            | MILL  | Mill Location | Nanticoke,ON    |           |        |                       |               |              |
| 855699          | STELCO  |               |                 |           |        |                       |               |              |
| Material Note:  | Certification<br>ASTM A500-21 GRADE B&C                       |               |                 |           |        |                       |               |              |
| Sales Or. Note: | CE: 0.36<br>% Harvested 100%<br>Within Miles of Location 1000 |               |                 |           |        |                       |               |              |

|                 |   |               |                 |           |        |                       |               |              |
|-----------------|---|---------------|-----------------|-----------|--------|-----------------------|---------------|--------------|
| Material:       | 12.0x6.0x250x28'0"0(1x1)REC                                   |               | Material No:    | 120060250 |        | Made in:              | Canada        |              |
| Sales Order:    | 1878614   |               | Purchase Order: | SSW132469 |        | Melted and Poured in: | Canada        |              |
| Heat No         | C   | Mn            | P               | S         | Si     | S                     | Al            | Cu           |
| 855699          | 0.200   | 0.830         | 0.010           | 0.007     | 0.015  | 0.007                 | 0.040         | 0.055        |
| Bundle No       | PCS   | Yield         | Tensile         | Eln.Zin   | Method | Recycled Content      | Post Consumer | Pre-Consumer |
| M201652792      | 1   | 063485 Psi    | 075512 Psi      | 30.0 %    | BOF    | 36.90%                | 19.80%        | 14.40%       |
| Heat            | MILL  | Mill Location | Nanticoke,ON    |           |        |                       |               |              |
| 855699          | STELCO  |               |                 |           |        |                       |               |              |
| Material Note:  | Certification<br>ASTM A500-21 GRADE B&C                       |               |                 |           |        |                       |               |              |
| Sales Or. Note: | CE: 0.36<br>% Harvested 100%<br>Within Miles of Location 1000 |               |                 |           |        |                       |               |              |

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MATERIAL TEST REPORT

Material: 12.0x6.0x375x30.0(1x1)REC-CSA Material No: 120060375 Made in: Canada  
 Sales Order: 1878527 Purchase Order: SSW132469 Melted and Poured in: Canada  
 Heat No C Mn P S Si Al Cu Cb Mo Ni Cr V Ti B N Ca  
 855647 0.190 0.820 0.014 0.011 0.018 0.043 0.048 0.005 0.006 0.016 0.050 0.002 0.002 0.0002 0.0040 0.0002  
 Bundle No PCS Yield Tensile Eln.2in Certification CE: 0.35  
 M201652674 1 061456 Psi 072584 Psi 30.0 % CSA G40.21-13 50W CLASS C  
 Heat MILL Mill Location Post Consumer Pre-Consumer (Post Industrial) % Harvested Within Miles of Location  
 855647 STELCO Nanticoke,ON BOF 36.90% 19.80% 14.40% 100% 1000

Material Note:  
 Sales Or. Note:  
 Material: 10.0x2.0x250x48.0(2x3). Material No: 1000202504800 Made in: Canada  
 Sales Order: 1878613 Purchase Order: SSW132469 Melted and Poured in: Canada  
 Heat No C Mn P S Si Al Cu Cb Mo Ni Cr V Ti B N Ca  
 710729 0.200 0.810 0.014 0.006 0.021 0.042 0.041 0.006 0.010 0.014 0.046 0.002 0.002 0.0002 0.0050 0.0002  
 Bundle No PCS Yield Tensile Eln.2in Certification CE: 0.35  
 M102257588 6 060454 Psi 069180 Psi 33.2 % ASTM A500-21 GRADE B&C  
 Heat MILL Mill Location Post Consumer Pre-Consumer (Post Industrial) % Harvested Within Miles of Location  
 710729 STELCO Nanticoke,ON BOF 36.90% 19.80% 14.40% 100% 1000

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6226 W. 74TH STREET  
 CHICAGO, IL 60638  
 Tel: 708-496-0380  
 Fax: 708-563-1950

<https://www.nucortubular.com>  
<https://www.ntportal.com>  
 Certificate Number: CHI 999176

**Sold By:**  
**NUCOR TUBULAR PRODUCTS INC.**  
 CHICAGO DIVISION  
 6226 W 74TH STREET  
 CHICAGO, IL 60638  
 Tel: 708 496-0380  
 Fax: 708 563-1950

Purchase Order No: SSW135403  
 Sales Order No: CHI 329278 - 1  
 Bill of Lading No: CHI 198532 - 1  
 Invoice No:

Shipped: 6/2/2023  
 Invoiced:

**CERTIFICATE of ANALYSIS and TESTS**

Certificate No: CHI 999176

Customer Part No:

Test Date: 5/30/2023

**TUBING A500 GRADE B(C)**  
**3" X 1-1/2" X 1/4" X 24'**

Total Pieces    Total Weight Lbs  
 48                      7,200

\* DOMESTIC STEEL M&M \*

| Bundle Tag | Mill | Heat   | Specs                      | Y/T Ratio | Pieces | Weight Lbs |
|------------|------|--------|----------------------------|-----------|--------|------------|
| 670063     | 4N   | 130210 | YLD=65306/TEN=70248/ELG=24 | 0.9296    | 24     | 3,600      |
| 670064     | 4N   | 130210 | YLD=65306/TEN=70248/ELG=24 | 0.9296    | 24     | 3,600      |

Mill #: 4N Heat #: 130210 Carbon Eq: 0.3043 Heat Src Origin: MELTED AND MANUFACTURED IN THE USA

| C      | Mn     | P      | S      | Si     | Al     | Cu     | Cr     | Mo     | V      | Ni     | Nb     | Sn     |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0.1900 | 0.5400 | 0.0120 | 0.0010 | 0.0240 | 0.0340 | 0.0790 | 0.0560 | 0.0200 | 0.0040 | 0.0460 | 0.0010 | 0.0030 |
| N      | B      | Ti     | Sb     |        |        |        |        |        |        |        |        |        |
| 0.0080 | 0.0000 | 0.0010 | 0.0010 |        |        |        |        |        |        |        |        |        |

**Certification:**

I certify that the above results are a true and correct copy of records prepared and maintained by NUCOR TUBULAR PRODUCTS INC. Sworn this day, 5/30/2023.

THE SPECIFICATIONS LISTED BELOW REPRESENT THE CURRENT ISSUED DATES OF THESE STANDARDS. THIS DOES NOT INDICATE THAT THE MATERIAL ABOVE CONFORMS TO EACH OR ALL OF THE STANDARDS. WE CERTIFY THE MATERIAL ABOVE TO THE SPECIFICATION LISTED IN THE LINE DESCRIPTION.

**CURRENT STANDARDS:**

- A252-19
- A500/A500M-21
- A513/A513M-21
- ASTM A53/A53M-20| ASME SA-53/SA-53M-21
- A847/A847M-14
- A1085/A1085M-15
- IN COMPLIANCE WITH EN 10204 SECTION 4.1
- INSPECTION CERTIFICATE TYPE 3.1

**Dawn Gowder**  
 Quality Supervisor NTP North