

Atlas Tube Corp. Kansas City
 Burlington St
 North Kansas City Missouri USA
 64116
 Tel:
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REF. B/L: 81154877
 Date: 05/19/2023
 Customer: 1592

MATERIAL TEST REPORT

USA

USA
 Melted and Poured in: USA

Material: 2.0X2.0X188X20"0(10X5)

Material No: 200201882000

Made in: USA
 Melted and Poured in: USA

Sales Order: 1912142

Purchase Order: P0241301-01

| | | | | | | | | | | | | | | | | |
|------------|-------|------------|------------|---------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Heat No | C | Mn | P | S | Si | Al | Cu | Cb | Mo | Ni | Cr | V | Ti | B | N | Ca |
| 23039352 | 0.060 | 0.840 | 0.008 | 0.003 | 0.020 | 0.028 | 0.090 | 0.001 | 0.016 | 0.040 | 0.050 | 0.004 | 0.001 | 0.0002 | 0.0071 | 0.0022 |
| Bundle No | PCS | Yield | Tensile | Eln.Zin | Certification | | | | | | | | | | | |
| Z100000803 | 50 | 067500 Psi | 074100 Psi | 26.5 % | ASTM A500-21 GRADE B&C | | | | | | | | | | | |

CHARPY Test Results

| | | | | | | | | | | |
|--------|--------|--------|----------|----------|----------|---------|--------|-------|-------|-------|
| Test | Sample | Direct | Absorbed | Absorbed | Absorbed | Avg | Shear | Shear | Shear | Avg |
| Ft_lbs | Temp | Size | ion | Energy1 | Energy2 | Energy3 | FT-LBS | Area1 | Area2 | Area3 |
| | | | | FT-LBS | FT-LBS | FT-LBS | % | % | % | % |

| | | | | | | | | | |
|----------|----------|---------------|--------|------------------|---------------|--------------------------------|-------------|--------------------------|-----|
| 7 | -22 F | 10X3.3 mm | L | 42 | 41 | 39 | 5.00 % | 75% | 500 |
| Heat | MILL | MILL Location | Method | Recycled Content | Post Consumer | Pre-Consumer (Post Industrial) | % Harvested | Within Miles of Location | |
| 23039352 | BIGRIVER | OSCEOLA,AR | EAF | 76.00% | 95.00% | 5.00 % | 75% | 500 | |

Material Note:
 Sales Or. Note:

Authorized by Quality Assurance *Jason Richard*
Jason Richard

The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements. CE calculated using the AWS D1.1 method. Steel is purchased fully killed with a fine grain practice. This document is in compliance with the requirements of EN10204 type3.1

