

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215567  
 Date: 04/24/2024  
 Customer: 801

**MATERIAL TEST REPORT**

**Sold To**  
 METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**Shipped To**  
 Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b> 20.0x12.0x625x48"0(1x1)VNMH	<b>Material No:</b> 200120625	<b>Made in:</b> USA
<b>Sales Order:</b> 2023045	<b>Purchase Order:</b> SKO 16012	<b>Melted and Poured In:</b> USA
<b>Heat No</b> C Mn P S Si Al Cu Cb Mo Ni Cr V Ti B N Ca		
24027021 0.050 0.830 0.007 0.001 0.040 0.032 0.080 0.017 0.015 0.040 0.040 0.003 0.001 0.0000 0.0070 0.0019		
<b>Bundle No</b> <u>PCs</u> <u>Yield</u> <u>Tensile</u> <u>Eln.2in</u> <u>Certification</u> <b>CE: 0.21</b>		
MJ00074174 1 067903 Psi 077576 Psi 36.2 % ASTM A500-23 GRADE B&C		

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<u>Heat</u>	<u>MILL</u>	<u>Mill Location</u>		<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>		
24027021	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**

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<b>Sales Order:</b>	2023045										<b>Purchase Order:</b>	SKO 16012		<b>Melted and Poured in:</b>	USA	
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Ein.2in</b>	<b>Certification</b>							<b>CE: 0.21</b>				
MJ00074191	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	BIGRIVER	Osceola,AR		EMF	76.00%	95.00%	5.00 %	75%	500		

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<b>Sales Order:</b>	2023045										<b>Purchase Order:</b>	SKO 16012			<b>Melted and Poured in:</b>	USA	
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>	
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019	
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>						<b>CE: 0.21</b>						
MJ00074186	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C												

**CHARPY Test Results**

FT_lbs	Test Temp	Sample Size	Direct ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>	<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>			
24027021	BIGRIVER	Osceola,AR	EAf	76.00%	95.00%	5.00 %	75%	500			

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<b>Sales Order:</b>	2023045										<b>Purchase Order:</b>	SKO 16012		<b>Melted and Poured in:</b>	USA	
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>							<b>CE: 0.21</b>				
MJ00074187	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

**CHARPY Test Results**

<b>Ft_lbs</b>	<b>Test Temp</b>	<b>Sample Size</b>	<b>Direct ion</b>	<b>Absorbed Energy1 FT-LBS</b>	<b>Absorbed Energy2 FT-LBS</b>	<b>Absorbed Energy3 FT-LBS</b>	<b>Avg FT-LBS</b>	<b>Shear Area1 %</b>	<b>Shear Area2 %</b>	<b>Shear Area3 %</b>	<b>Avg %</b>
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>	<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>			
24027021	BIGRIVER	Osceola,AR	EMF	76.00%	95.00%	5.00 %	75%	500			

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															<b>Melted and Poured in:</b>	USA		
<b>Sales Order:</b>	2023045										<b>Purchase Order:</b>	SKO 16012						
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>		
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019		
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>				<b>CE: 0.21</b>									
MJ00074173	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C													

**CHARPY Test Results**

<b>Ft_lbs</b>	<b>Test Temp</b>	<b>Sample Size</b>	<b>Direct ion</b>	<b>Absorbed Energy1 FT-LBS</b>	<b>Absorbed Energy2 FT-LBS</b>	<b>Absorbed Energy3 FT-LBS</b>	<b>Avg FT-LBS</b>	<b>Shear Area1 %</b>	<b>Shear Area2 %</b>	<b>Shear Area3 %</b>	<b>Avg %</b>
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	BIGRIVER	Osceola,AR		EAF	76.00%	95.00%	5.00 %	75%	500		

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<b>Sales Order:</b>	2023045										<b>Purchase Order:</b>	SKO 16012			<b>Melted and Poured in:</b>	USA		
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>		
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019		
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Elon.2in</b>	<b>Certification</b>						<b>CE: 0.21</b>							
MJ00074189	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C													

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	BIGRIVER	Osceola,AR		EAF	76.00%	95.00%	5.00 %	75%	500		

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<b>Sales Order:</b>	2023045											<b>Purchase Order:</b>	SKO 16012			<b>Melted and Poured in:</b>	USA	
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>		
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019		
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>							<b>CE: 0.21</b>						
MJ00074188	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C													

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15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	BIGRIVER	Osceola,AR		EAF	76.00%	95.00%	5.00 %	75%	500		

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<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>
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<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>							<b>CE: 0.21</b>				
MJ00074179	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

**CHARPY Test Results**

<b>Ft_lbs</b>	<b>Test Temp</b>	<b>Sample Size</b>	<b>Direct ion</b>	<b>Absorbed Energy1 FT-LBS</b>	<b>Absorbed Energy2 FT-LBS</b>	<b>Absorbed Energy3 FT-LBS</b>	<b>Avg FT-LBS</b>	<b>Shear Area1 %</b>	<b>Shear Area2 %</b>	<b>Shear Area3 %</b>	<b>Avg %</b>
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>	<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>			
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<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>							<b>CE: 0.21</b>					
MJ00074178	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C												

**CHARPY Test Results**

<b>Ft_lbs</b>	<b>Test Temp</b>	<b>Sample Size</b>	<b>Direct ion</b>	<b>Absorbed Energy1 FT-LBS</b>	<b>Absorbed Energy2 FT-LBS</b>	<b>Absorbed Energy3 FT-LBS</b>	<b>Avg FT-LBS</b>	<b>Shear Area1 %</b>	<b>Shear Area2 %</b>	<b>Shear Area3 %</b>	<b>Avg %</b>
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>	<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>			
24027021	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



Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

**MATERIAL TEST REPORT**

**Sold To**  
 METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**Shipped To**  
 Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b>	20.0x12.0x625x48"0(1x1)VNMH	<b>Material No:</b>	200120625	<b>Made in:</b>	USA											
<b>Sales Order:</b>	2023045	<b>Purchase Order:</b>	SKO 16012	<b>Melted and Poured in:</b>	USA											
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>					<b>CE: 0.21</b>						
MJ00074180	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direct ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	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**

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Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

**MATERIAL TEST REPORT**

**Sold To**  
 METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**Shipped To**  
 Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b> 20.0x12.0x625x48"0"(1x1)VNMH	<b>Material No:</b> 200120625	<b>Made in:</b> USA														
<b>Sales Order:</b> 2023045	<b>Purchase Order:</b> SKO 16012	<b>Melted and Poured in:</b> USA														
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>						<b>CE: 0.21</b>					
MJ00074190	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>	<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>			
24027021	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**

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Metals USA  
 Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

**MATERIAL TEST REPORT**

**Sold To**

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**Shipped To**

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b>	20.0x12.0x625x48'0"0(1x1)VNMH	<b>Material No:</b>	200120625	<b>Made in:</b>	USA											
<b>Sales Order:</b>	2023045	<b>Purchase Order:</b>	SKO 16012	<b>Melted and Poured in:</b>	USA											
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>					<b>CE: 0.21</b>						
MJ00074177	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	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**

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Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

**MATERIAL TEST REPORT**

Sold To

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

Shipped To

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b>	20.0x12.0x625x48'0"0(1x1)VNMH										<b>Material No:</b>	200120625		<b>Made in:</b>	USA	
<b>Sales Order:</b>	2023045										<b>Purchase Order:</b>	SKO 16012		<b>Melted and Poured in:</b>	USA	
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>										<b>CE: 0.21</b>	
MJ00074182	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

**CHARPY Test Results**

<b>Ft_lbs</b>	<b>Test Temp</b>	<b>Sample Size</b>	<b>Direct ion</b>	<b>Absorbed Energy1 FT-LBS</b>	<b>Absorbed Energy2 FT-LBS</b>	<b>Absorbed Energy3 FT-LBS</b>	<b>Avg FT-LBS</b>	<b>Shear Area1 %</b>	<b>Shear Area2 %</b>	<b>Shear Area3 %</b>	<b>Avg %</b>
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	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**

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Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

**MATERIAL TEST REPORT**

**Sold To**  
 METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**Shipped To**  
 Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b>	20.0x12.0x625x48"0(1x1)VNMH											<b>Material No:</b>	200120625			<b>Made in:</b>	USA		
<b>Sales Order:</b>	2023045											<b>Purchase Order:</b>	SKO 16012			<b>Melted and Poured in:</b>	USA		
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>			
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019			
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>								<b>CE: 0.21</b>						
MJ00074192	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C														

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	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**

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Certificate of Mill Test Results

PO: SKO-328981-1  
 PO/REQ:

1-May-2024

PART NO:

HEAT: 24027021

Page 1 of 8

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

MATERIAL TEST REPORT

**Sold To**  
 METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**Shipped To**  
 Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

Material: 20.0x12.0x625x48"0(1x1)VNMH      Material No: 200120625      Made In: USA  
 Sales Order: 2023045      Purchase Order: SKO 16012      Melted and Poured in: USA

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019

**Bundle No** MJ00074192      **PCs** 1      **Yield** 067903 Psi      **Tensile** 077576 Psi      **Eln.2in** 36.2 %      **Certification** ASTM A500-23 GRADE B&C      **CE: 0.21**

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direct ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	

Heat	MILL	Mill Location	Method	Recycled Content	Post Consumer	Pre-Consumer (Post Industrial)	% Harvested	Within Miles of Location
24027021	BIGRIVER	Osceola,AR	EMF	76.00%	95.00%	5.00 %	75%	500

Material Note:  
 Sales Or. Note:

Authorized by Quality Assurance: *Jason Richard*  
 Jason Richard

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Certificate of Mill Test Results

PO: SKO-328059-2

29-Apr-2024

PO: KEU.

Page 8 of 8

PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
6651 E Hwy 137  
Blytheville Arkansas USA  
72315  
Tel:  
Fax:



REF./L: 81215565  
Date: 04/22/2024  
Customer: 801

MATERIAL TEST REPORT

Sold To

METALS USA - NORTHEAST LP  
10 TOWER ROAD  
SEEKONK MA 02771  
USA

Shipped To

Metals USA - Northeast, L.P.  
10 Tower Road  
SEEKONK MA 02771  
USA

<b>Material:</b>	20.0x12.0x625x48'0"0(1x1)VNMMH										<b>Material No:</b>	200120625		<b>Made in:</b>	USA	
<b>Sales Order:</b>	2023045										<b>Purchase Order:</b>	SKO 16012		<b>Melted and Poured in:</b>	USA	
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>											
MJ00074181	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C	CE: 0.21										

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>	<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>			
24027021	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

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Certificate of Mill Test Results

PO: SKO-328059-2  
 POLKCO:

29-Apr-2024

HEAT: 24027021

Page 7 of 8

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF./L: 81215565  
 Date: 04/22/2024  
 Customer: 801

MATERIAL TEST REPORT

Sold To

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

Shipped To

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

Material:	20.0x12.0x625x48'0"(1x1)VNMH										Material No:	200120625		Made in:	USA	
Sales Order:	2023045										Purchase Order:	SKO 16012		Melted and Poured in:	USA	
Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<u>Bundle No</u>	<u>PCs</u>	<u>Yield</u>	<u>Tensile</u>	<u>Eln.2in</u>	<u>Certification</u>											CE: 0.21
MJ00074177	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direct Ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<u>Heat</u>	<u>MILL</u>	<u>Mill Location</u>	<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>			
24027021	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**

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Certificate of Mill Test Results

PO: SKO-328059-2  
 PO/REQ:

29-Apr-2024

Page 6 of 8

PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF./L: 81215565  
 Date: 04/22/2024  
 Customer: 801

MATERIAL TEST REPORT

Sold To

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

Shipped To

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

Material:	20.0x12.0x625x48"0(1x1)VNMH											Material No:	200120625		Made in:	USA	
Sales Order:	2023045											Purchase Order:	SKO 16012		Melted and Poured in:	USA	
Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca	
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019	
<u>Bundle No</u>	<u>PCs</u>	<u>Yield</u>	<u>Tensile</u>	<u>Eln.2in</u>	<u>Certification</u>					<u>CE: 0.21</u>							
MJ00074190	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C												

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direct ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104	95	95	95	95	95
<u>Heat</u>	<u>MILL</u>	<u>Mill Location</u>	<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>			
24027021	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**

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Certificate of Mill Test Results

PO: SKO-328059-2  
 PO/REQ:

29-Apr-2024

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PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF./L: 81215565  
 Date: 04/22/2024  
 Customer: 801

MATERIAL TEST REPORT

Sold To

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

Shipped To

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

Material:	20.0x12.0x625x48"0(1x1)VNMH											Material No:	200120625		Made in:	USA	
Sales Order:	2023045											Purchase Order:	SKO 16012		Melted and Poured in:	USA	
Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca	
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019	
<u>Bundle No</u>	<u>PCs</u>	<u>Yield</u>	<u>Tensile</u>	<u>Eln.2in</u>	<u>Certification</u>	<u>CE: 0.21</u>											
MJ00074180	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C												

CHARPY Test Results

FT_lbs	Test Temp	Sample Size	Direct ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104	95	95	95	95	95
<u>Heat</u>	<u>MILL</u>	<u>Mill Location</u>	<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>			
24027021	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**

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PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

**MATERIAL TEST REPORT**

Sold To

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

Shipped To

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b>	20.0x12.0x625x48"0(1x1)VNMH										<b>Material No:</b>	200120625		<b>Made in:</b>	USA		
<b>Sales Order:</b>	2023045										<b>Purchase Order:</b>	SKO 16012		<b>Melted and Poured in:</b>	USA		
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>	
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019	
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>					<b>CE: 0.21</b>							
MJ00074178	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C												

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	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**

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Certificate of Mill Test Results

PO: SKO-328059-2  
 PO/REV:

29-Apr-2024

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PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF./L: 81215565  
 Date: 04/22/2024  
 Customer: 801

MATERIAL TEST REPORT

**Sold To**  
 METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**Shipped To**  
 Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

Material:	20.0x12.0x625x48"0(1x1)VNMH											Material No:	200120625			Made in:	USA		
Sales Order:	2023045											Purchase Order:	SKO 16012			Melted and Poured in:	USA		
Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca			
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019			
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>							<b>CE: 0.21</b>							
MJ00074179	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C														

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direct Ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
Heat	MILL	MILL Location	Method	Recycled Content	Post Consumer	Pre-Consumer (Post Industrial)	% Harvested	Within Miles of Location			
24027021	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**

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PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF./L: 81215565  
 Date: 04/22/2024  
 Customer: 801

**MATERIAL TEST REPORT**

Sold To

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

Shipped To

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b>	20.0x12.0x625x48"0(1x1)VNMH										<b>Material No:</b>	200120625		<b>Made In:</b>	USA	
<b>Sales Order:</b>	2023045										<b>Purchase Order:</b>	SKO 16012		<b>Melted and Poured in:</b>	USA	
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>					<b>CE: 0.21</b>						
MJ00074182	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direct ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>	<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>			
24027021	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**

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METALS USA

Certificate of Mill Test Results

PO: SKO-328059-2  
PO/REV:

29-Apr-2024

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PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
6651 E Hwy 137  
Blytheville Arkansas USA  
72315  
Tel:  
Fax:



REF.B/L: 81215565  
Date: 04/22/2024  
Customer: 801

MATERIAL TEST REPORT

Sold To  
METALS USA - NORTHEAST LP  
10 TOWER ROAD  
SEEKONK MA 02771  
USA

Shipped To  
Metals USA - Northeast, L.P.  
10 Tower Road  
SEEKONK MA 02771  
USA

Material:	20.0x12.0x625x48"0(1x1)VNMH											Material No:	200120625			Made in:	USA		
Sales Order:	2023045											Purchase Order:	SKO 16012			Melted and Poured in:	USA		
Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca			
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019			
<u>Bundle No</u>	<u>PCs</u>	<u>Yield</u>	<u>Tensile</u>	<u>Eln.Zin</u>	<u>Certification</u>							<u>CE: 0.21</u>							
MJ00074192	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C														

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<u>Heat</u>	<u>MILL</u>	<u>Mill Location</u>	<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>			
24027021	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

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METALS USA

Certificate of Mill Test Results

PO: SKO-328059-1  
PO/REQ:

29-Apr-2024

Page 8 of 8

PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
6651 E Hwy 137  
Blytheville Arkansas USA  
72315  
Tel:  
Fax:



REF./I/L: 81215565  
Date: 04/22/2024  
Customer: 801

MATERIAL TEST REPORT

**Sold To**  
METALS USA - NORTHEAST LP  
10 TOWER ROAD  
SEEKONK MA 02771  
USA

**Shipped To**  
Metals USA - Northeast, L.P.  
10 Tower Road  
SEEKONK MA 02771  
USA

<b>Material:</b>	20.0x12.0x625x48"0(1x1)VNMH											<b>Material No:</b>	200120625		<b>Made in:</b>	USA	
<b>Sales Order:</b>	2023045											<b>Purchase Order:</b>	SKO 16012		<b>Melted and Poured in:</b>	USA	
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>	
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019	
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>							<b>CE: 0.21</b>					
MJ00074181	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C												

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>	<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>			
24027021	BIGRIVER	Osceola,AR	EAF	76.00%	85.00%	5.00 %	75%	500			

Material Note:  
Sales Or. Note:

Authorized by Quality Assurance: *Jason Richard*  
Jason Richard

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**METALS USA**

**Certificate of Mill Test Results**

PO: SKO-328059-1  
 PO\REQ:  
 HEAT: 24027021

29-Apr-2024

Page 7 of 8

PART NO:

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

Sold To  
 METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**MATERIAL TEST REPORT**

Shipped To  
 Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b>	20.0x12.0x625x48"0(1x1)VNMH															<b>Material No:</b>	200120625			<b>Made in:</b>	USA		
<b>Sales Order:</b>	2023045															<b>Purchase Order:</b>	SKO 16012			<b>Melted and Poured in:</b>	USA		
<b>Heat No</b>	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca							
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019							
<u>Bundle No</u>	<u>PCs</u>	<u>Yield</u>	<u>Tensile</u>	<u>Elon.2in</u>	<u>Certification</u>					CE: 0.21													
MJ00074177	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C																		

**CHARPY Test Results**

Ft_lbs	Test Temp	Sample Size	Direct Ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<u>Heat</u>	<u>MILL</u>	<u>Sample Size</u>	<u>Direct Ion</u>	<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>		
24027021	BIGRIVER	10x10 mm	Osceola,AR	EAF	78.00%	95.00%	5.00 %	75%	500		

Material Note:  
 Safes Or. Note:

Authorized by Quality Assurance: *Jason Richard*  
**Jason Richard**

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Certificate of Mill Test Results

PO: SKO-328059-1  
 PO/REV:

29-Apr-2024

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PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

MATERIAL TEST REPORT

Sold To

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

Shipped To

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

Material:	20.0x12.0x625x48"0(1x1)VNMH											Material No:	200120625		Made in:	USA	
Sales Order:	2023045											Purchase Order:	SKO 16012		Melted and Poured in:	USA	
Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca	
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019	
<u>Bundle No</u>	<u>PCs</u>	<u>Yield</u>	<u>Tensile</u>	<u>Eln.2in</u>	<u>Certification</u>							<u>CE: 0.21</u>					
MJ00074190	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C												

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<u>Heat</u>	<u>MILL</u>	<u>Mill Location</u>	<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>			
24027021	BIGRIVER	Osceola,AR	EAF	78.00%	95.00%	5.00 %	75%	500			

Material Note:  
 Sales Or. Note:

Authorized by Quality Assurance *Jason Richard*  
**Jason Richard**

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Certificate of Mill Test Results

PO: SKO-328059-1  
 PO\REQ:

29-Apr-2024

PART NO:

HEAT: 24027021

Page 5 of 8

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
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REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

MATERIAL TEST REPORT

**Sold To**  
 METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**Shipped To**  
 Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

Material:	20.0x12.0x625x48"0(1x1)VNMH										Material No:	200120625		Made in:	USA	
Sales Order:	2023045										Purchase Order:	SKO 16012		Melted and Poured in:	USA	
Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2in</b>	<b>Certification</b>					<b>CE: 0.21</b>						
MJ00074180	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direct ion	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104	95	95	95		
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>		
24027021	BIGRIVER	Osceola,AR		EMF	76.00%	95.00%	5.00 %	75%	500		

Material Note:  
 Sales Or. Note:

Authorized by Quality Assurance:

*Jason Richard*  
**Jason Richard**

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Certificate of Mill Test Results

PO: SKO-328059-1  
 PO\REQ:

29-Apr-2024

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PART NO:

HEAT: 24027021

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF.B/L: 81215565  
 Date: 04/22/2024  
 Customer: 801

MATERIAL TEST REPORT

Sold To  
 METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

Shipped To  
 Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b>	20.0x12.0x625x48"0(1x1)VNMH											<b>Material No:</b>	200120625		<b>Made in:</b>	USA	
<b>Sales Order:</b>	2023045											<b>Purchase Order:</b>	SKO 16012		<b>Melted and Poured in:</b>	USA	
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mi</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>	
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019	
<u>Bundle No</u>	<u>PCs</u>	<u>Yield</u>	<u>Tensile</u>	<u>Eln.2in</u>	<u>Certification</u>							<u>CE: 0.21</u>					
MJ00074178	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C												

CHАРY Test Results

<u>Ft_lbs</u>	<u>Test Temp</u>	<u>Sample Size</u>	<u>Direction</u>	<u>Absorbed Energy1 FT-LBS</u>	<u>Absorbed Energy2 FT-LBS</u>	<u>Absorbed Energy3 FT-LBS</u>	<u>Avg FT-LBS</u>	<u>Shear Area1 %</u>	<u>Shear Area2 %</u>	<u>Shear Area3 %</u>	<u>Avg %</u>
15	+40F	10x10 mm	L	89	99	104		95	95	95	
<u>Heat</u>	<u>MILL</u>	<u>Mill Location</u>	<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>			
24027021	BIGRIVER	Oseola,AR	EAF	76.00%	95.00%	5.00 %	75%	500			

Material Note:  
 Sales Or. Note:

Authorized by Quality Assurance *Jason Richard*  
**Jason Richard**

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**Certificate of Mill Test Results**

PO: SKO-328059-1  
 PO/REQ:  
 HEAT: 24027021

29-Apr-2024  
 Page 3 of 8

PART NO:

Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF./L: 81215565  
 Date: 04/22/2024  
 Customer: 801

**Sold To**

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

**MATERIAL TEST REPORT**

**Shipped To**

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

<b>Material:</b>	20.0x12.0x625x48'0"0(1x1)VNMH																
<b>Sales Order:</b>	2023045																
<b>Material No:</b>	200120625																
<b>Purchase Order:</b>	SKO 16012																
<b>Heat No</b>	<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>Al</b>	<b>Cu</b>	<b>Cb</b>	<b>Mo</b>	<b>Ni</b>	<b>Cr</b>	<b>V</b>	<b>Ti</b>	<b>B</b>	<b>N</b>	<b>Ca</b>	
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019	
<b>Bundle No</b>	<b>PCs</b>	<b>Yield</b>	<b>Tensile</b>	<b>Eln.2In</b>	<b>Certification</b>												<b>CE: 0.21</b>
MJ00074179	1	067903 Psi	077576 Psi	38.2 %	ASTM A500-23 GRADE B&C												

CHARPY Test Results												
FT_Lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %	
15	+40F	10x10 mm	L	89	99	104		95	95	95		
<b>Heat</b>	<b>MILL</b>	<b>Mill Location</b>		<b>Method</b>	<b>Recycled Content</b>	<b>Post Consumer</b>	<b>Pre-Consumer (Post Industrial)</b>	<b>% Harvested</b>	<b>Within Miles of Location</b>			
24027021	BIGRIVER	Osceola,AR		EAF	76.00%	95.00%	5.00 %	75%	500			

Authorized by Quality Assurance: *Jason Richard*  
**Jason Richard**

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Certificate of Mill Test Results

PO: SKO-328059-1  
 PO/REQ:

29-Apr-2024

HEAT: 24027021

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Atlas Tube Arkansas  
 6651 E Hwy 137  
 Blytheville Arkansas USA  
 72315  
 Tel:  
 Fax:



REF./L: 81215565  
 Date: 04/22/2024  
 Customer: 801

MATERIAL TEST REPORT

Sold To

METALS USA - NORTHEAST LP  
 10 TOWER ROAD  
 SEEKONK MA 02771  
 USA

Shipped To

Metals USA - Northeast, L.P.  
 10 Tower Road  
 SEEKONK MA 02771  
 USA

Material:	20.0x12.0x625x48"0°(1x1)VNMH										Material No:	200120625		Made In:	USA	
Sales Order:	2023045										Purchase Order:	SKO 16012		Melted and Poured in:	USA	
Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019
<u>Bundle No</u>	<u>PCs</u>	<u>Yield</u>	<u>Tensile</u>	<u>Elon.2in</u>	<u>Certification</u>							<u>CE: 0.21</u>				
MJ00074182	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C											

CHARPY Test Results

Fl_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104	95	95	95	95	95
Heat	<u>MILL</u>	<u>Mill Location</u>		<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>		
24027021	BIGRIVER	Osceola,AR		EMF	76.00%	95.00%	5.00 %	75%	500		

Material Note:  
 Sales Or. Note:

Authorized by Quality Assurance: *Jason Richard*  
**Jason Richard**

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Certificate of Mill Test Results

PO: 1 SKO-328059-1

PO\REQ:

29-Apr-2024

HEAT: 24027021

Page 1 of 8

Atlas Tube Arkansas  
6651 E Hwy 137  
Blytheville Arkansas USA  
72315  
Tel:  
Fax:



REF.B/L: 81215565  
Date: 04/22/2024  
Customer: 801

MATERIAL TEST REPORT

Sold To

METALS USA - NORTHEAST LP  
10 TOWER ROAD  
SEEKONK MA 02771  
USA

Shipped To

Metals USA - Northeast, L.P.  
10 Tower Road  
SEEKONK MA 02771  
USA

Material:	20.0x12.0x625x48'0"0(1x1)VNMH											Material No:	200120625		Made In:	USA	
Sales Order:	2023045											Purchase Order:	SKO 16012		Melted and Poured in:	USA	
Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N	Ca	
24027021	0.050	0.830	0.007	0.001	0.040	0.032	0.080	0.017	0.015	0.040	0.040	0.003	0.001	0.0000	0.0070	0.0019	
<u>Bundle No</u>	<u>PCs</u>	<u>Yield</u>	<u>Tensile</u>	<u>Eln.2in</u>	<u>Certification</u>							<u>CE: 0.21</u>					
MJ00074192	1	067903 Psi	077576 Psi	36.2 %	ASTM A500-23 GRADE B&C												

CHARPY Test Results

Ft_lbs	Test Temp	Sample Size	Direction	Absorbed Energy1 FT-LBS	Absorbed Energy2 FT-LBS	Absorbed Energy3 FT-LBS	Avg FT-LBS	Shear Area1 %	Shear Area2 %	Shear Area3 %	Avg %
15	+40F	10x10 mm	L	89	99	104	95	95	95		
<u>Heat</u>	<u>MILL</u>	<u>Mill Location</u>	<u>Method</u>	<u>Recycled Content</u>	<u>Post Consumer</u>	<u>Pre-Consumer (Post Industrial)</u>	<u>% Harvested</u>	<u>Within Miles of Location</u>			
24027021	BIGRIVER	Osceola,AR	EMF	76.00%	95.00%	5.00 %	75%	500			

Material Note:  
Sales Or. Note:

Authorized by Quality Assurance, *Jason Richard*  
Jason Richard

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