DOC ID 7.5.3.1F Rev 5/18
DATE CREATED 11/25/2019

AmeriBolt

A Division of Lonestar Group

MATERIAL TEST REPORT

AMB **LSF**

PO# P1385992 **SO#** 348073

Item:	1 1/4 - 7 X 6 ALL THREAD STUD		
Material Specification:	ASTM A354(11) Gr BD		
LOT#:	W11867		
Heat Number:	7104884M		
Tensile Strength PSI:	153000	**Yield Strength KSI:**	141000
Elongation:	15	**Reduction of Area:**	55
Hardness:	327 HB	**Proof Load:**	NA
Macro Etch:	N/A	**Tempering Temp.:**	1022 F
Oil Quenched and Tempered			

Carbon (C):	0.41	**Chromium (CR):**	N/A
Manganese (MN):	0.9	**Molybdenum (MO):**	N/A
Phosphorus (P):	0.015	**Copper (CU):**	N/A
Sulfur (S):	0.004	**Nitrogen (N):**	N/A
Silicon (SI):	N/A	**Nickel (NI):**	N/A
Cobalt (CO):	N/A	**Aluminum (AL):**	N/A
Vanadium (V):	N/A	**Oxygen (O):**	N/A
Tungsten (W):	N/A	**Hydrogen (H):**	N/A
Columbium/Niobium (NB/CB):	N/A	**Iron (FE):**	N/A
Calcium (CA):	N/A		

"AmeriBolt is a Lonestar Fasteners approved bolting products supplier"

We hereby certify that the material was manufactured, sampled, tested and inspected per the most recent revision of the product or material specification. The foregoing data was furnished to us by our supplier or resulting from a test performed in a recognized laboratory and is on file in the records of the corporation.

Name: NAKITA EVANS

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MATERIAL TEST REPORT

AMB **LSF**

PO# P1385992 **SO#** 348073

Item:	1 1/2-8 X 9 ALL THREADED STUD		
Material Specification:	ASTM A 193(16) B8		
LOT#:	W11868		
Heat Number:	755284		
Tensile Strength KSI:	93	**Yield Strength KSI:**	44
Elongation:	44	**Reduction of Area:**	60
Hardness:	169 HBW	**Wedge Tensile PSI:**	NA
Macro Etch:	NA	**Tempering Temp.:**	NA
Carbide Solution Treated			

Carbon (C):	0.020	**Chromium (CR):**	18.100
Manganese (MN):	1.720	**Molybdenum (MO):**	NA
Phosphorus (P):	0.029	**Copper (CU):**	NA
Sulfur (S):	0.022	**Nitrogen (N):**	NA
Silicon (SI):	0.600	**Nickel (NI):**	8.600
Cobalt (CO):	NA	**Aluminum (AL):**	NA
Vanadium (V):	NA	**Tin (SN):**	NA
Tungsten (W):	NA	**Titanium (TI):**	NA
Columbium/Niobium (NB/CB):	NA	**Boron (B):**	NA
Calcium (CA):	NA		

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AMB AmeriBolt

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MATERIAL TEST REPORT

AMB LSF

PO# P1385992 **SO#** 348073

Item:	1 1/2 - 8 HEAVY HEX NUT		
Material Specification:	ASTM A194(18) GR. 8		
LOT#:	138754 / 89558		
Heat Number:	N180516AW08		
Hardness:	193 HB	**Proof Load lbf:**	119360
Macro Etch:	NA	**Tempering Temp.:**	NA

Carbon (C):	0.043	**Chromium (CR):**	18.330
Manganese (MN):	1.010	**Molybdenum (MO):**	NA
Phosphorus (P):	0.038	**Copper (CU):**	NA
Sulfur (S):	0.011	**Nitrogen (N):**	NA
Silicon (SI):	0.340	**Nickel (NI):**	8.010
Cobalt (CO):	NA	**Aluminum (AL):**	NA
Vanadium (V):	NA	**Tin (SN):**	NA
Tungsten (W):	NA	**Titanium (TI):**	NA
Columbium/Niobium (NB/CB):	NA	**Boron (B):**	NA
Calcium (CA):	NA		

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