

A Division of Lonestar Fasteners

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MATERIAL TEST REPORT

AMB **LSF**

PO# P1328787-RO **SO#** 272137

Item:	1 1/4 - 8 X 5 1/2 HEAVY HEX BOLT		
Material Specification:	ASTM A193(16) B7		
LOT#:	777858/60745		
Heat Number:	CR10454290-82	**Country of Origin:**	USA
Tensile Strength PSI:	144000	**Yield Strength PSI:**	122000
Elongation:	18	**Reduction of Area:**	56
Hardness:	29 HRC	**Wedge Tensile PSI:**	139000
Macro Etch:	S1/R1/C1	**Tempering Temp.:**	1100 F
Quenched and Tempered		**Decarburization:**	OK

Carbon (C):	0.410	**Chromium (CR):**	0.920
Manganese (MN):	0.860	**Molybdenum (MO):**	0.210
Phosphorus (P):	0.010	**Copper (CU):**	NA
Sulfur (S):	0.008	**Nitrogen (N):**	NA
Silicon (SI):	0.280	**Nickel (NI):**	NA
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		

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.

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