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AmeriBolt

A Division of Lonestar Group

MATERIAL TEST REPORT

AMB **LSF**

PO# P1391891 **SO#** 354880

Item:	1/2-13 X 6 ALL THREAD ROD		
Material Specification:	ASTM A193(15) B7		HDG
LOT#:	69451		
Heat Number:	X61705015001		
Tensile Strength MPA:	965-970	**Yield Strength MPA:**	820-824
Elongation:	19-20 HRC	**Reduction of Area:**	57-58
Hardness:	31-32 HRC	**Wedge Tensile KSI:**	135-136
Macro Etch:	S2/R2/C2	**Tempering Temp.:**	640 C
Quenched and Tempered		**Decarburization:**	OK

Carbon (C):	0.410	**Chromium (CR):**	0.840
Manganese (MN):	0.820	**Molybdenum (MO):**	0.220
Phosphorus (P):	0.019	**Copper (CU):**	NA
Sulfur (S):	0.003	**Nitrogen (N):**	NA
Silicon (SI):	0.190	**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		

"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.

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