

Issue Date: 7/5/2022

Supplier: Fasteners Plus
202 Blue Creek Drive
Urbana IA, 52345

Part Number: TRA-11412

Item:	1 1/4-7 X 12	ALL THREAD STUD	
Material Specification:	ASTM A193 (19) B7		HDG
LOT#:	W52141		
Heat Number:	A200789		
Tensile Strength KSI:	138	Yield Strength KSI:	126
Elongation:	22	Reduction of Area:	61
Hardness:	29 HRC	Charpy Impact -20 F:	84/76/74 ftlbs
Macro Etch:	S1/R1/C1	Tempering Temp.:	1340 F
Quenched and Tempered		Decarburization:	Pass

Carbon (C):	0.410	Chromium (CR):	0.830
Manganese (MN):	0.810	Molybdenum (MO):	0.170
Phosphorus (P):	0.008	Copper (CU):	NA
Sulfur (S):	0.018	Nitrogen (N):	NA
Silicon (SI):	0.230	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		

Signature Wendi Kafer

Date: 7/5/2022

Title: Quality Specialist

The certificate of conformity is based on an evaluation of a sample of the above-mentioned product.
Technical report and documentation are at applicant's disposal. This is to certify that the tested sample is in conform

ity.