

FASTENERS + PLUS

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Issue Date: 7/5/2022

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

Part Number: TRA-3812

Item: 3/8-16 X 12		ALL THREAD STUD	
Material Specification: ASTM A193 B8			
LOT#:	B540102501		
Heat Number:	4U688		
Tensile Strength KSI:	109.6-110.5	Yield Strength KSI:	87.5-88.4
Elongation:	30.1-33.4	Reduction of Area:	50.2-53.6
Hardness:	95-96 HRB	Wedge Tensile:	N/A
Macro Etch:	N/A	Tempering Temp.:	N/A
Carbide Solution Treated			
Carbon (C):	0.04	Chromium (CR):	18.14
Manganese (MN):	1.85	Molybdenum (MO):	NA
Phosphorus (P):	0.034	Copper (CU):	NA
Sulfur (S):	0.0032	Nitrogen (N):	NA
Silicon (SI):	0.34	Nickel (NI):	8.02
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.