

0	T-240
SERIAL NUMBE	R: 7-24/ COOK DATE:
MOLD SIZEBY_	PO HARRIS
ORDER DATE 17MAY23 SHIP	DATE: 19MAY 23
FOR: WFR	
SIZE 2.175 X 1.6	TYPE 5XDS
THREAD BLANK OTHE	R Their Fed Ex 4 insure
MATRIX (H)	WEIGHT
MATRIX (S) 34839	WEIGHT
BINDER 3/1271	WEIGHT
BLANK A166643	TJ
BILLET	TUBE
WELD MPI	MPI PIC BRAZE
THREAD GAGE	STAND OFF
FINAL DIAMOND GRIND SIZE	2.175 X 1.6
LENGTH TO WELD	
FINISHED PIC TAKEN BY RO	CRATED BY Ro DATE: 5/19.23
International	domestic

SHORT BIT & TOOL CO 225 GOLD STREET GARLAND TX 75042 972-205-1011 shortbits@gmail.com



## Certificate of Conformance

Serial Number	Size	Туре	Steel or Matrix	Shank Diameter Bore
T-240, T-241	2.175 X 1.600	SXDS	Steel	
Component		Material	Vender	Lot or Heat Number
Blank		8620	RHW	A186643
Hard Powder				
Soft Capping Powder		W2	SURFACE	34839
Tool Joint				
MIG Weld				
Tubing				
Inspection				
Diamond Grinding To S	ize			
Weld MPI				
Thread Gaging				



## Surface Engineering Powders Certified Material Test Report

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ieved to be
Fe:
S:
J.
14.05
11.15

2895 46th Ave North St. Petersburg, FL

Main Office: 727.528.7998 www.surfaceengineering.com 9/30/2022

Date

Reporting Officer

Ian Oberholtzer



330 Belmont Avenue, Brooklyn, NY 11207-4000 U.S.A tel:+1.718.342.4900 fax:+1.718.342.0175

## Certificate of Analysis

Item No: 4483D

CU

MN

NI

ZN B

SI

FE

PB

SN

311271

47.11

24.38 20.02

8.14

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October 21, 2022

Customer Order No: VERBAL-VICKIE

Customer ID: SHORTC

Customer Name: Short Bits & Tool

Sales Order No: 43850

Virgin Grade Binder Alloy

Shape:1/2" x 1/2" x 3/4" Tumbled Sheared Pcs.

BELMONT METALS, INC.

Nasir Naseer

QC Administrator





8000 N. County Road 225 East Pittsboro, IN 46167 Phone: (317) 892-7000 Fax: (317) 892-7285

## Certified Material Test Report

Cert #: 305970 Heat #: A186643 Work Order: 279207 Sales Order: 213264-1 Customer: Marco Steel and Aluminum Load #: 320078 Reference #: Reference Desc : End Use: Size: 3" Shape: Round Grade: 8620 Length: 19'9" Grain Practice: Al Fine Grain (5-8) per ASTM A29 Reduction Ratio: adle Chemistry Analysis (ASTM A29) C P Mn S Si Al Cu Cr Sn Cb Ca 0.21 0.82 0.008 0.023 0.23 0.031 0.21 0.46 0.51 0.17 0.009 0.0086 0.002 0.001 0.0003 0.0005 0.001 0.001 1.97 Pb Co Sb Zr Bi Ceq J-Factor 0.000 0.007 0.004 0.004 0.000 0.000 178 Product Check Analysis (ASTM A29) Al Cu Ni Cr Mo Sn Cb Front Back Jominy (ASTM A255) J2 J3 14 .15 J6 J7 J8 J9 J10 J12 J14 J16 J18 J20 J24 J28 Ji Calc'd Standard 45 44 41 34 29 25 24 23 22 21 19 18 17 17 16 15 14 7 9 11 13 20 25 30 35 40 45 50 3 5 15 16 J7 J10 J12 J14 J16 J18 Front Back Microcleanliness (DIN 50602) Microcleanliness (ASTM E45) Method A Method C (SAE J422) Method E S 0 SAM "B" SAM "D" AH CT CH Macrostructure (ASTM E381) Magnetic Particle Inspection Decarb Grainsize % of Diameter Austenitic Ferritio C Frequency Depth Mechanical Properties (ASTM A370)

Issued: 12/13/2018 20:43:21 PO#: 106119-1 Disposition: Rolled Prime Ti 0

J32

14

Hardness

(Surf)

(MR)

Steel Dynamics - Engineered Bar Products has a quality system in place which has been certified ISO 9001:2015 compliant, including PED certification Comments/Specs

% ROA

0.35% EUL Yield Strength

Tensile Properties

0.2% Yield Strength % Elong (2")

ASTM A322-13

Tensile Strength

Marco Steel & Alum, Inc. Certifies that this is a true copy of the original Mill cert on file

Date: A Tell not L Vendor CAS

Condition: As-Ralled, Hot-Rolled

I hereby certify that the content of this report is correct and accurate, and that all tests and operations performed on this material were in compliance with applicable material specifications and purchaser designated requirements.

Jason Sawa - Rolling Mill Metallurgist (ES)

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Any alteration to this report voids Steel Dynamic's warrenting of results. No weld repair has been performed on this material. This material is not radioactive and has not been exposed to radioactivity while under the control of Steel Dynamics. This material has not been exposed to mercury while under the control of Steel Dynamics. Unless otherwise noted, this material was melted, continually dast, and rolled in the USA; w/ all testing performed by Steel Dynamics.

