

# CERTIFICATION REPORT

CUSTOMER:	STONE TUCKER INSTRUMENTS	DATE:	9/24/18
SERIAL NO:	57035	ITEM:	5-STEP BLOCK, INCH
PO NO:	O18092401		
MATERIAL:	1018 STEEL, NICKEL-PLATED	HEAT NO:	85840
APPLICABLE SPECIFICATION:	ASTM E797 FIG. X1.2, U.S. CUSTOMARY BLOCK, INCHES		

MEASURING TECHNIQUE USED: REPLICATION <b>XX DIRECT MEASUREMENT</b> OTHER	NIST TRACEABLE EQUIPMENT USED /TEST NO: VIDEO MEASUREMENT SYS 821/262115-99 DIAL INDICATOR 683/287532-16 MICROMETER 683/287532-16 <b>XX GAGE BLOCKS 683/287532-16</b>
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Manufactured in accordance with Quality Assurance Program Revision 3 dated 8/31/17 that complies with MIL-Q-9858A, 10CFR50 App B, ANSI N45.2, ASME Sec III Div 1 and MIL-I-45208A.

## MATERIAL TEST REPORT ATTACHED

STEP No.	STEP THICKNESS ± 0.001"
1	0.100
2	0.200
3	0.300
4	0.400
5	0.500

DIMENSIONS IN INCHES

IT IS CERTIFIED THAT THIS REFERENCE STANDARD HAS BEEN MANUFACTURED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND INSPECTED WITH INSTRUMENTS CALIBRATED IAW MIL-STD-45662 (LATEST REV.), ISO 10012-1 AND ANSI/NCSL Z540-1 USING MASTER GAGE BLOCKS AND MICRORULE MASTER SCALES DIRECTLY TRACEABLE TO THE NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST).

AUTHORIZED SIGNATURE  PHILIP R. HERMAN, QA MANAGER







**PH TOOL**  
REFERENCE STANDARDS

6021 EASTON ROAD, PIPERSVILLE, PA 18947 USA  
T: 267-203-1600 · F: 267-203-1601 · www.phtool.com

This Certification Report shall not be reproduced except in full, without the written approval of PH TOOL.

3/4" Thick  
1018 steel  
Trafilix  
PA Steel  
HT #85840 PH PO # 8788

	<b>Attestato di Controllo</b> Werkzeugeignis / Test report / Relevé de contrôle <b>EN 10204 2.2</b>		TRAFILATI - RELATURULLATI - RETTIFICATI - LAMINATI IN ACCIAI COMUNI E DI QUALITÀ	I-25040 Cividate Camuno (BS), Italy - Via degli Emigranti, 9 Tel. +39 0364 367700 Fax. +39 0364 344391 E-mail <a href="mailto:info@trafilix.com">info@trafilix.com</a>	 
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Cliente / Kunde / Customer / Client:	Destinazione / Bestimmung / Destination / Destinatar:	D.d.T.	008690	Data:	16-09-14					
<b>PENNSYLVANIA STEEL COMPANY, INC.</b> 1717 WOODHAVEN DRIVE, P.O. BOX 40 USA-19020 BENSALEM()		Lieferschein Delivery note Document		Datum Date Date						
<b>Misura / Material / Material / Matière</b> <b>Norme di Prodotto / Norm / Norme / Norme</b>	<b>Colata</b> <small>Charge / Heat / Coulee</small>	<b>Analisi chimica % - Chemische Zusammensetzung % - Chemical Analysis % - Analyse Chimique %</b>			<b>HB</b>	<b>TOE</b>				
080A15/SAE 1018+C COLD DRAWN Ord. n. 159301 * Flat 1 5/8" x 1" * <i>FIDXLG</i>	TX184310	C 0,16	Si 0,22	Mn 0,87	P 0,015	S 0,021	Cr 0,15	Mo 0,02		
BS 970-3 # ASTM A 108-07 # ASTM A 29-12 Kg. 2.126		Ni 0,06	Cu	Al 0,005	Pb	B	V	Ca	171	
080A15/SAE 1018+C COLD DRAWN Ord. n. 144617 * Flat 6" x 3/8" * <i>F31xLCC</i>	TX185073	C 0,15	Si 0,20	Mn 0,75	P 0,007	S 0,006	Cr 0,08	Mo 0,04		
BS 970-3 # ASTM A 108-07 # ASTM A 29-12 Kg. 2.040		Ni 0,16	Cu	Al 0,020	Pb	B	V	Ca	171	
080A15/SAE 1018+C COLD DRAWN Ord. n. 148024 * Flat 7" x 1/2" * <i>F.50x700</i>	TX183048	C 0,15	Si 0,21	Mn 0,78	P 0,007	S 0,007	Cr 0,11	Mo 0,06		
BS 970-3 # ASTM A 108-07 # ASTM A 29-12 Kg. 1.100		Ni 0,17	Cu	Al 0,018	Pb	B	V	Ca	173	
080A15/SAE 1018+C COLD DRAWN Ord. n. 151531 * Flat 12" x 3/4" * <i>F.75x12.00</i>	TX185840	C 0,15	Si 0,20	Mn 0,83	P 0,006	S 0,008	Cr 0,11	Mo 0,06		
BS 970-3 # ASTM A 108-07 # ASTM A 29-12 Kg. 1.958		Ni 0,17	Cu	Al 0,022	Pb	B	V	Ca	172	
080A15/SAE 1018+C COLD DRAWN Ord. n. 160054 * Square 1/2" x 1/2" * <i>S.50018</i>	TX184075	C 0,15	Si 0,21	Mn 0,78	P 0,013	S 0,008	Cr 0,12	Mo 0,04		
BS 970-3 # ASTM A 108-07 # ASTM A 29-12 Kg. 2.828		Ni 0,15	Cu	Al 0,020	Pb	B	V	Ca	180	
12L14+C COLD DRAWN Ord. n. 148024 * Square 5/16" * <i>S.31214</i>	TX185195	C 0,08	Si 0,04	Mn 1,15	P 0,052	S 0,300	Cr	Mo		
ASTM A 108-07 Kg. 1.013		Ni	Cu	Al	Pb 0,20	B	V	Ca	171	
		Co	Ti	W	Te	Bi	Nb	Cr+Mo+Ni		
<b>Note / Remarks / Bemerkungen</b> Tolleranze secondo/Toleranzen nach/Tolerances according to/tolerances selon <b>EN 10278</b>										

N.B. Materiale conforme all'ordinato. Il certificato originale è depositato presso i nostri archivi. - Waren entsprechend der Bestellung. Das Originalwerkzeugnis ist bei unserem Archiv verfügbar - Goods conforming to P.O. Original certificate is available in our files. - Les produits sont conformes à la commande. Le document original est gardé chez nos archives.

Controllo Qualità  
Fulvio Galli

**PH TOOL**  
 This material used for  
 Standard no. 57035  
 Date 9-24-18  
 QA Approval Em

Heat Number 85840  
 Shipper No 772357  
 Customer PO# 8788  
 Customer Name PH TOOL COMPANY



6021 Easton Road, Pipersville, PA 18947  
 TEL: 267-203-1600 FAX: 267-203-1601  
 EMAIL: info@phtool.com

**Result:**

Exact Match: **1018 Steel**

Heat/Lot #: **85840**

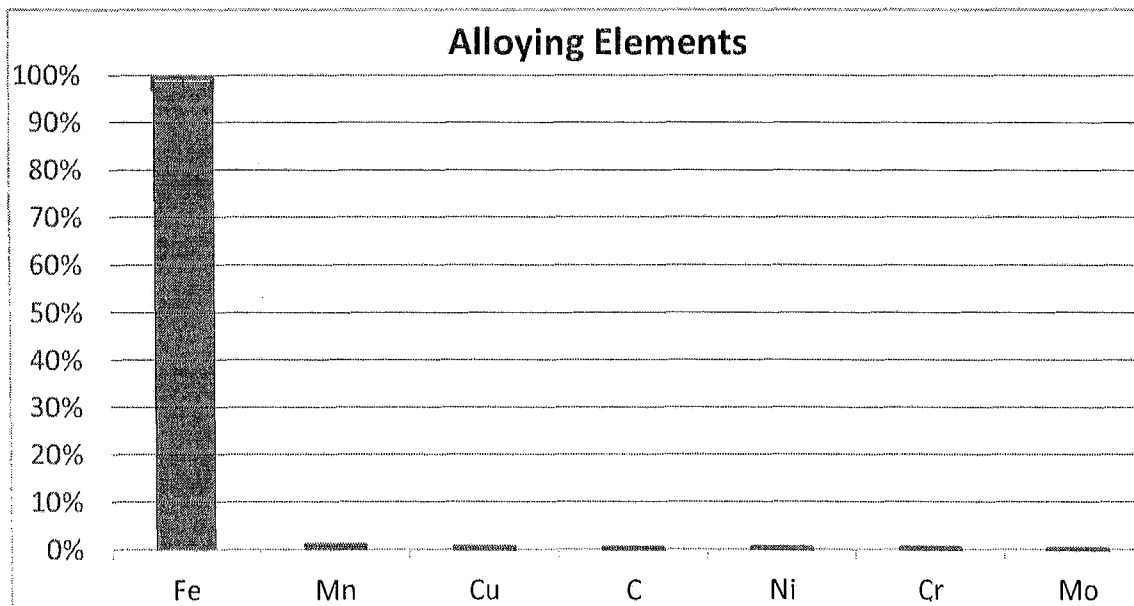
Test Date: 3/3/2016

Equipment: Olympus Delta Professional XRF Analyzer

Operator's Initials: JSB

Equipment Serial No: 540865

Element	Composition (%)	+/- Device Error	Min (%)	Max (%)
Fe	98.54	0.04	97.00	99.50
Mn	0.73	0.03	0.60	0.90
Cu	0.20	0.02	0.00	0.50
C	0.20	Nom	0.15	0.20
Ni	0.17	0.02	0.00	0.20
Cr	0.12	0.01	0.00	0.20
Mo	0.06	0.00	Tramp	0.06



Authorized Signature:

PHILIP R. HERMAN, QA MANAGER