

Acme Industrial Company
Keylocking Threaded Insert
Certificate of Conformance

Acme Industrial Company
441 Maple Avenue
Carpentersville, IL 60110
Ph: 847-428-3911
Fax: 847-428-1820
Cage Code: 00175

Customer Part Number MS51830-108, REV G, 5/9/22

MIL-I-45914A Rev. 4/25/91

Acme Part Number: 217-076324

Acme Lot Number:

395782-000

Quantity Manufactured:

14836

Lubrication Spec:

Date Manufactured:

2/28/2023

Material Spec:

AMS 5640

Material Supplier:

OLARRA

Mill Heat Number:

535724

Surface Treatment:

AMS 2700

Part Number: 131-629032

Heat Treat Specs

Hardness:

Component Part No: 132-785005B

Component:

Material Supplier: KENMODE TOOL

Mill Heat Number:

E220592

Material Spec:

ASTM A580(Chem Only)

Heat Treat Spec:

Hardness Req't:

Surface Treatment:

Note: DFARS compliant per 252.225-7014 alt 1, superseded by 252.225-7008 & 252.225-7009
Parts manufactured in the USA

DISCLAIMER: SELLER MAKES NO OTHER WARRANTY WHATSOEVER, EXPRESSED OR IMPLIED AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED AND EXCLUDED FROM ALL TRANSACTIONS AND SHALL NOT APPLY TO THE GOODS SOLD.

REMEDY: Our obligation is limited to the repair or replacement of defective parts or, at our option, the refund of the purchase price.

IN NO EVENT SHALL THE SELLER BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES IN THE NATURE OF PENALTIES.

Certificate of Conformance and test results may only be reproduced in their complete form.

The test results relate only to the item or items tested.

The product identified on this Certificate of Conformance has been manufactured, tested, and unless noted otherwise, conforms to the applicable drawings, specifications, and standards. Complete reports of physical and chemical tests are on file for examination. Goods conform to seller's quality level unless specified otherwise.

Note: Blank spaces indicate that a quality requirement is not applicable.
Form No.: 410-28 Rev:6/29/06

Joseph L. Lautaud
Joseph Lautaud
Quality Manager

CERTIFICATION PACKAGE REVIEWED BY:

1-7-21 A 2/2/21/25

Test Results

Acme Part Number: 217-076324 Date Manufactured: 2/28/2023

Customer Part Number MS51830-108, REV G, 5/9/22

Internal Thread: 3/8"-16 UNJ-C-3B Lot Number 395782-000

External Thread: 1/2"-13 UNC-2A Manufactured Quantity: 14836

Required		A/R
Torque Out:	320 Inch/Lbs. Min	Accept
Pull Out:	11607 Lbs. Min	Accept
Internal Thread Proofload:	9687 Lbs. Min	Accept
Max Locking Torque:	Inch/Lbs Max	NA
Min Breakaway Torque:	Inch/Lbs Min	NA
metallurgical Properties:	MIL-45914A REV 4/25/91	Accept
Magnetic Permeability:	NA	

Notes: Test results must not be reproduced except in full. Test results apply only to items tested.
Blanks spaces indicate no Quality requirements applicable.
Include one copy with shipment, retain one copy for records.

CERTIFICATION PACKAGE REVIEWED BY:

NAME: JN DATE: 03/03/23

ACHROS INOXIDABLES OLARRA S.A.
Cm. Lacabart, Etxebarri, 1
48180 Leio, Bizkaia
España
www.olarra.com

Management Systems
Certified by
LRQA
ISO 9001 / SCI 600036U
ISO 14001 / SCI 1076270

RODA SPECIALTY STEEL INC.
230 LEXINGTON DRIVE - BUFFALO GROVE
60089 ILLINOIS - UNITED STATES

ACEROS INOXIDABLES

OLARRA

Trade Mark - Zeichen des Lieferwunders
Anagramma del suministrador

Works Inspector Stamp - Werkstättverordniger
Sello del Inspector

Certificate type - APZ Nach Certificado tipo		EN 10204/3.1		Certificate n° - Prüf-Nr Certificado n°		486225		Date - Datum - Fecha 11 - 03 - 2022			
Our order N° Werks - Nr N° de Referencia		760728		Heat Schmelze Colada		535724		Your order N° Bestell - Nr Pedido N°			
Steel Grade Werkstoff Calidad		AISI-303		According to Entsprechend Corresponde		ASTM A 582 / A 582M-21.					
Shape and Size - Gegenstand Perfil y dimensión ROUND 1/2"		Tolerance - Toleranz Tolerancia 19 ISO 286-1		Bundes Bunde Bultos		7		Bars Stäbe Barras			
								Weight Gewicht Peso 11329 Lbs			
Requirements - Anforderungen - Exigencias											
SAE AMS 5640V-16. TYPE I. ASTM A 314-19. Chemical composition according to ASTM F899-20. EN 10088-3 2014. RSS0008 Rev.00-2020. 1.4305. MECAMAX - PLUS					SOLD TO ACME INDUSTRIAL PO# 154937-0 ITEM # 131-629032						
Melting process / Erschmelzungsart / Proceso de Fusión E.A.F. / A.O.D.				Heat treatment / Wärmebehandlung / Tratamiento térmico 1050C 4H/Std WATER/WASSER/AGUA							
Solution annealed/Abgeschreckt/Hipertempe-Cold drawn/Gezogen/Estirado-Polished/Poliert/Pulido											
Test results - Ergebnis der Prüfungen - Resultados de los ensayos											
Reference standard Bezugsnorm Norma de referencia		Rp0,2% KSI	Rp 1% KSI	Rm KSI	A %L 5D	A %L 4D	Z %	Hardness Härte HBw	Impact test / Kerbschlagzähigkeit / Resistencia ISO V ft lb		
ASTM A370		Min.									
		Max.						262			
Temperature 20	Spec. N° Probe Nr. Pro N°	1	82	101	111	32	51	241			
	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	N	Co
Min.					0,150	17,00		8,00			
Max.	0,150	1,00	2,00	0,200	19,00		10,00	0,70	0,1000		
	0,048	0,30	1,70	0,038	0,324	17,65	0,30	8,41	0,52	0,0300	0,14
Visual and dimensional inspection Besichtigung und Ausmessung O.K.		Radioactivity inspection Radioaktivitätskontrolle O.K.		Antineutrino test Spektroskopische Verwechslungsprüfung O.K.		Grain Size Korngröße Tamaño de grano		5-8 ASTM E-112-13			
Remarks - Bemerkungen - Observaciones											
Free From Mercury contamination/Quecksilberfreiheit. No welding repair. This material has been melted and manufactured in Spain which is a qualifying country acc. to DFARS 252.225-7009. Eddy current test for cracks/Wirbelstromrissgeprüft. OK											
EDV / EDP Acc. EN 10204 Marian Tejedo Quality Mng. Works Inspector Der Werkstättverständige Inspector de fábrica											

We hereby certify that material described herein complies with the requirements agreed on the order.

8/5/22

Cert of Conformance / Material Cert

Sold To: KENMODE TOOL & ENGINEERING, I
820 W. ALGONQUIN RD
ALGONQUIN, IL 60102

Date Shipped: 1/9/2023
PO #: 070142
Radcliff No.: 169543
Heat No.: E220592
Qty. Shipped: 264 LBS-2-22" PLASTIC SPOOLS

Item Description			
.039/.041 .053/.055(.0400 ± .0010 X .054 ± .0010)	T302 Stainless Steel	Edge: SPECIAL SHAPE-SEE PRINT	Spec: ASTM A580/A580M-18
Melting Country: United Kingdom	Producing Country: United States	INSPECTION APPROVED	
Notes: SSW3020002 ACTUAL SIZE: .0408/.041 X .0548/.0548			
Date: 1/11/2023 Insp: [Signature]			
Chemical Analysis			
C: .07400%	Cr: 17.40000%	Cu: .38800%	Mn: 1.08000%
Mo: .38000%	N: .04000%	Ni: 8.06000%	P: .03100%
S: .00100%	Si: .46000%		
Mechanical Properties			
Tensile: 210 KSI		Rockwell: C44	

We certify that the chemical analysis, physical properties, and mechanical test results are correct as contained in our records, and that they conform to customer requirements.
Material as shipped, is free from mercury contamination, and does not contain any counterfeit material.
All material complies with RoHS 3, REACH and Conflict Minerals unless a lead plating has been specified.
Material is DFAR compliant

Note: Material SDS will be emailed upon request

Lisa Platek

Lisa Platek
Certification Clerk

WIRE PURCHASED TO PRODUCE PARTS
FOR ACME INDUSTRIAL CO.

T. J. [Signature]
QUALITY MANAGER

KENMODE TOOL & ENGINEERING



INDUSTRIAL STEEL & WIRE

1901 N. Narragansett Ave. • Chicago, Illinois 6063
773/804.0404 • Fax 773/804.0408
www.industeel.com
An ISO 9001 Certified Company

12/16/22

ISW Order/Invoice Number: 425899-00

SOLD TO: R2940
RADCLIFF WIRE, INC.
97 RONZO ROAD
PO BOX 603
Bristol CT 06010

SHIP TO: R2940
RADCLIFF WIRE, INC.
97 RONZO ROAD
PO BOX 603
Bristol CT 06010

CUSTOMER PO: 59899

0625SSBT

.0625"302 STAINLESS WIRE N/M CNT CLS

WEIGHT: 1760

HEAT NUMBER: E220592

CHEMISTRIES

C	Mn	P	S	Si	Cr	Ni	N
.074	1.080	.031	.001	.460	17.400	8.060	.040
Mo	Cu						
.380	.388						

PHYSICAL PROPERTIES

TENSILE: 275426 276404

TORSIONS:

ROCKWELL #1:
ROCKWELL #2:

BENDS:
SALT SPRAY HOURS:
COATING WEIGHT:
GRAIN SIZE:

YIELD STRENGTH:
ELONGATION:
REDUCTION OF AREA:

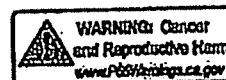
**** MERCURY FREE ****

*** SPECIFICATIONS ***
ASTM A313-18
AMS 5688-M
ASTM A580/A580M-18

TARIFF: 7223.00
NAFTA:

MELT: GB UNITED KINGDOM
ORIG: GB UNITED KINGDOM
MILL: SRI WIRE COMPANY
DFAR: Y
ROHS: Y


Rey Domingo, Quality Control Manager



The values and specifications herein are passed through from the manufacturer directly to the customer.
Please see reverse side or www.industeel.com for all Terms and Conditions of Sale.
Material Properties Sheet 70403-MPS Version 1 Approved by BF 11/20/12



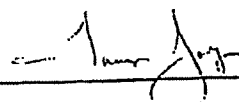
90 Wauregan Road
 Danielson, CT 06239
 Voice: 860-774-0607 Fax: 860-774-0785
 E-mail: tjoly@siriwire.com ISO: 9001:2015

CERTIFICATE OF ANALYSIS

SOLD TO: INDUSTRIAL STEEL & WIRE
 1901 N. NARRAGANSETT
 AVENUE
 CHICAGO, IL 60639

SHIP TO: INDUSTRIAL STEEL & WIRE
 201 Pine Street
 Bristol, CT 06010

SALES ORDER 10758	WORK ORDER 15581 S18829 L18608	SHIP DATE 11/17/2022	CUSTOMER PO 87661C
ITEM DESCRIPTION			
DIAM ORDERED .0625	QTY SHIP (LBS) 1817	COUNTRY OF ORIGIN England	MILL SOURCE Marcegaglia
MATERIAL 302 CM /	HEAT # E220592 ✓	MERCURY FREE Yes	ROHS COMPLIANT Yes
CHEMICAL ANALYSIS			
C .074	SI .46	Mn 1.08	P .031
S .001	Cr 17.40	Mo .38	NI 8.06
Ti .001	Nb .028	Al .004	B .0001
Co .325	Cu .388	Sn .011	N .040
V .070	W .047	Ta .0010	Ca .0008
As .0100	O .0039	Ce .0140	
MECHANICAL PROPERTIES			
DIAM, SHIPPED .0625	TENSILE 275,915	COIL TEST Pass	WRAP TEST Pass
BEND TEST 10			
SPECS: ASTM A313-18, AMS 5088M, ASTM A580/ASTM A580M-18			
ADDITIONAL NOTES: 275,426 PSI & 276,404 PSI			

Authorized signature:  Tammy Joly, General Manager

Marcegaglia Stainless Sheffield Ltd
 ASR Rod Mill
 Stevenson Road
 Sheffield, S9 3XG
 Telephone: +44 (0) 114 242 1124
 Fax: +44 (0) 114 242 2152



Prüf-Nr
 Test certificate No **114040**
 No du certificat

In Accordance With EN 10204.3.1

Rechnungs-Nr Invoice/Cons No 118612 No de facture		Bestell-Nr Customer Order No 086185 No de commande client		NORM 302		SPECIFICATION		NORME			
ADDRESS Industrial Steel & Wire Co 1901 N Narragansett Ave Chicago IL USA				Young No Werte Order No No de commande client Lieferbedingungen Supply Conditions Einfuhrbestimmung Profil ALICE Profil Quantity Quantity Quantité Schmelze Nr Cast No No de coulée AV227635/01 SOFTENED AND DESCALED 6.80 mm Round 2 rod coils for 1.726t E220692							
Schmelzanalyse				Cast Analysis				Analyse de Coulée			
%C	%Si	%Mn	%P	%S	%Cr	%Ni	%Al	%Ti	%Nb	%As	%B
0.074	0.460	1.08	0.031	0.001	17.40	0.38	8.06	0.001	0.028	0.004	0.0001
%Cu	%Co	%Se	%N	%W	%Mo	%Ta	%Ca	%La	%O	%Ga	
0.325	0.388	0.011	0.040	0.070	0.047	0.0010	0.0006	0.0100	0.0039	0.0140	
Mech und phys Eigenschaften				Mechanical and Physical Properties				Caractéristiques mécaniques			
0.2%PS kPSI	1.0%PS kPSI	UTS kPSI	Elongation % Elongement %	RA%	Korngröße Grain Size Taille de grain	Korn Korngröße Grain	Hb	Charpy (J)	Ferrite Content %	Schaeffer Ferrite %	
30.600	30.688	62.982	64.3	81.0							
De Long Ferrite %	WRC 1992 Ferrite %	H900 0.2%PS	H900 UTS	H900 A10	H900 RA	H900 Hardness	Charpy				
Intermetallic Corrosion Test											
Band		Ovality		Microstructure		Macrostructure					
Additional Information ASTM A580(M) - 16 Type 302 Stainless Material free from known mercury, radium, or alpha particle contamination Material melted and rolled in Sheffield, England by Outokumpu Stainless Ltd. Material melted and poured in the United Kingdom.						Manufacturing Excellence & Technical Manager Robert Cutts Date 10/01/2023 This order is manufactured according to a Quality System registered to BS EN ISO 9001:2015 and approved by TUV Nord. Certificate Registration No. GB 01439					

Quality assurance is guaranteed by the
 Marcegaglia Stainless Sheffield Ltd. All the
 material is produced in accordance with
 the requirements of the relevant standards
 and is subject to the most rigorous control
 system. The material is produced in
 accordance with the requirements of the
 relevant standards and is subject to the
 most rigorous control system. The material
 is produced in accordance with the
 requirements of the relevant standards
 and is subject to the most rigorous
 control system. The material is produced
 in accordance with the requirements of
 the relevant standards and is subject to
 the most rigorous control system.

Marcegaglia Stainless Sheffield Ltd
 is a company registered in England
 and Wales, number 01442011. The
 company is registered in the United
 Kingdom. The company is registered
 in the United Kingdom. The company
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 requirements of the relevant standards
 and is subject to the most rigorous
 control system. The material is produced
 in accordance with the requirements of
 the relevant standards and is subject to
 the most rigorous control system.



FASTENER SORTING CORP.

910 S. STILES DRIVE ADDISON, ILLINOIS 60101-4913
PHONE: (630) 543-3003 FAX: (630) 543-3028 WEB: www.swdinc.com

CERTIFICATION

Page 1 of 1

Customer Name : ACME INDUSTRIAL COMPANY
Purchase Order # : 163504 ✓ Packing List # :
SWD Shop Order # : 1632216 Work Order # : 395782-47 ✓
Description : MS51830-108, REV. F, Part # : 217-076324 ✓ *de*
11/14/12 ✓ *sum*

3/8-16J X 1/2-13

Quantity : 14,844 Weight : 123

Process :
Passivate per AMS 2700 Method 1 Type 2

Specification :
*TS - TESTED PER AMS 2700 F, CLASS 4 COPPER SULFATE ✓
PER PARAGRAPH 3.2.1.3.1. AND SURFACE APPEARANCE 3.2.2.
AMS 2700 F, METHOD 1 NITRIC, TYPE 2

Inspection Results :
CopSul PASS

Notes:

THIS MESSAGE IS INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY TO WHICH IT IS ADDRESSED AND MAY CONTAIN INFORMATION THAT IS PRIVILEGED, CONFIDENTIAL, AND EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THE MESSAGE TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE NOTIFY US IMMEDIATELY BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ADDRESS NOTED ABOVE VIA THE U.S. POSTAL SERVICE. THIS CERTIFICATION RESULTS APPLIES TO THE ITEMS TESTED. THANK YOU. PROCESSED IN THE USA.
(*) ASTERISK INDICATES THIS SPECIFICATION IS INCLUDED IN THE ISO 17025 SCOPE OF ACCREDITATION.

IF YOU DO NOT RECEIVE THE COMPLETE DOCUMENT, PLEASE CONTACT US AT 1-830-543-3003.
THIS CERTIFICATE SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF SWD INC'S MANAGEMENT.

SIGNED: *Efrén Vazquez* QC INSPECTOR
EFREN VAZQUEZ

DATE PRINTED: 02/03/2023

