Wieland Chase, LLC
14212 Selwyn Drive
Montpelier, OH 43543

Dear Customer, June 29, 2020

This letter certifies that all rod, cast & turn and ingot produced by Wieland Chase are:

1) mercury free;
2) PCB free;
3) asbestos free;
4) free from, and not produced from ozone-depleting chemicals;
5) ammonia free;
6) chlorides and sulfides free.

All Chase brass rod produced in 2020 meets the ASTM half hard temper (H02) specifications detailed below in Table 1 for the alloys shown. Wieland Chase rod products:

1) are not subject to weld repair; and
2) unless otherwise noted, Wieland Chase products are melted and manufactured in the USA (country of origin – USA).

Table 1 – ASTM Standards for Wrought Rod Products & Ingot

Alloy	ASTM Spec.*	Meets Requirements For
C27450	B124 B283 B927	Chemistry only Chemistry only (hot pressed forgings) Chemistry & tensile properties
C36000	B16	Chemistry, tensile & hardness properties
C34500	B453	Chemistry, tensile & hardness properties
C35000	B453	Chemistry, tensile & hardness properties
C35300	B453	Chemistry, tensile & hardness properties
C36300	B981	Chemistry, tensile properties
C37000	B124 B283 B981	Chemistry only Chemistry only (hot pressed forgings) Chemistry & tensile properties
C37700	B124 B283 B981	Chemistry only Chemistry only (hot pressed forgings) Chemistry & tensile properties
C69300 Eco Brass	B124 B283 B371	Chemistry only Chemistry only (hot pressed forgings) Chemistry & tensile properties
All	B249	Rod & Bar Dimensional tolerances
C87850	B30	Chemistry Only (Ingot)

* English/Metric version of standard shown

RoHS European Commission Directives on the restriction of hazardous substances in electrical and electronic equipment - All Wieland Chase leaded brass products *do contain LEAD which is above the threshold limit with exemption* as shown below:

a. **RoHS: 2002/95/EC** Annex item 6 showing an exemption for leaded brass rod containing less than 4% lead;
b. **RoHS2 2011/65/EC** Annex III Exemption 6(c) 6 showing an exemption for copper alloys containing up to 4% lead;
c. **RoHS3: 2015/863** addition of four phthalate substances to RoHS2: No phthalate substances are used in brass manufacturing; Annex III Exemption 6(c) 6 showing an exemption for copper alloys containing up to 4% lead

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REACH Declaration – Wieland Chase maintains an updated copy of REACH declaration information on the company webpage www.wieland-chase.com and Chase SDS product sheets also available on the webpage.

Conflict Minerals statement (Wall Street Reform and Consumer Protection Act signed in July 2010) – The brass rod alloys supplied by Wieland Chase do not contain any Conflict Minerals necessary for the functionality or production of those alloys. Wieland Chase maintains an updated copy of the CMRT 5.XX declaration form information on the company webpage www.wieland-chase.com

Proposition 65 Statement - Wieland Chase maintains updated Prop 65 information on the company webpage www.wieland-chase.com and in our SDS product sheets also available on the webpage.

Mitsubishi / Kobe Steel / Toray Industries statement – Wieland Chase does not purchase any products manufactured by Mitsubishi, Kobe Steel or Toray Industries.

Chase leaded brass products also meet:

1) **DFARS Compliance:** According to The Berry Amendment, United States Code Title 10 Section 2533a, Clause 252.225-7008, *Restriction on Acquisition of Specialty Metals*
2) **End-of-Life Vehicles: European Commission Directive 2000/53/EC:** Annex II dated 9/20/05, item 3 showing an exemption for leaded brass rod containing less than 4% lead.
3) **European Union Rule 76/769/EEC** prohibiting the use of deca BDE (deca bromo diphenyl ether), PFOS (perfluorooctane sulfonate) and PFOA (perfluorooctanoic acid) in brass rod production.
4) **European Union Directive 2006/66/EC** on batteries and accumulators and waste batteries and accumulators prohibiting mercury greater than 0.0005% and cobalt greater than 0.002%.
5) **European Union Directive 2018/852** on packaging and packaging waste. This is not applicable since our brass rod bundles are not shipped to the EU.
6) **GADSL (Global Automotive Declarable Substance List)** calls out a lead maximum content of 0.1% but references Directive 2000/53/EC for regulatory purposes which exempts lead up to 4% (see above).

Wieland Chase leaded brass products do not meet:

China RoHS – Our leaded and low lead products contain more than the allowable 0.1% maximum lead stated in GB/T 26572-2011. Our products do not contain mercury, hexavalent chromium, polybrominated biphenyls, polybrominated diphenyl ethers or cadmium.

Special notes:

1. **Wieland Chase C36000 hardness control:** Chase C36000 drawn rod products meet all half hard (H02) temper hardness requirements, unless tensile strength is specified by the customer or the latest revision of ASTM B16.
2. **Wieland Chase C36000 Thread Roll Quality:** ASTM B16 defines thread roll quality temper, compared to half hard temper specifications, as having:
    a. lower minimum tensile strength for rod sizes 0.500” to 1.000” regardless of shape;
    b. lower hardness range for round rod sizes 0.500” to 1.000”.
    c. Wieland Chase half hard temper rod in those categories overlap the thread roll quality requirements and therefore meet the thread roll temper requirements also.
3. **Wieland Chase Cast & Turned products:** Cast & turned products (5.000 – 10.000” diameter) meet the ASTM B16 chemistry requirements for C36000 and ASTM B124/B981 chemistry requirements for C37700 Cast & turned products do not have any specified Rockwell hardness or mechanical property requirements.

Stress-Relieving:

When stress relieving is specified for leaded brass products, material is heat treated at 525^0 F for 75 minutes at temperature and air-cooled. NOTE: C69300 (Eco Brass) is not stress relieved.

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ISO 17025 - Laboratory Accreditation:

Our laboratory is not accredited to ISO 17025, but is part of our ISO 9001 certified quality system. Listed below is the ***scope of supply*** and tests that are performed in our laboratory and the ASTM standards controlling our test methods (if applicable).

TEST TYPES

Spectroscopy

1.	X-ray Fluorescence:	Traceable to known certified standards
2.	Optical Emission:	Traceable to known certified standards
3.	ICP Emission:	Traceable to known certified standards

Hardness

1.	Rockwell:	ASTM E18

Mechanical Properties

1.	Tensile:	ASTM E8

Mercurous Nitrate (Residual Stress Evaluation)

When specified for leaded brass products, Mercurous Nitrate testing is completed to determine residual stress levels according to ASTM B154. Samples taken after stress relieving at Wieland Chase are submitted to a third-party A2LA-accreditated commercial laboratory for testing. After testing, certified test reports are sent to the customer requesting the test.

EN10204 Certifications

Our quality system general test reports (Code 80) meet the requirements of EN10204:2004 section 2.1. If EN10204 section 3.1 certifications are required, they are only met by our certification codes 81, 82, 83, 84 and 85 where actual test values are provided.

ISO 9001 Registration:

Wieland Chase has been an ISO-registered company since February 1996 and now certified to ISO9001: 2015 valid until December 18, 2020 as shown on the attached DRAFT UKAS certification. Please note our registration was due to expire on May 18, 2020 but was extended to the December date as a result of COVID-19 delaying our recertification audit completion.

The attached proof of ISO 9001 registration is sufficient to meet the requirement "evaluate and select suppliers based on their ability to supply product...". We do not distribute copies of our Quality Manual because of the confidential information it contains. However, in addition to the attached ISO certification, the following is provided to satisfy quality system questions on our organizational structure:

Name of ISO contact:	Larry Muller: Senior Technical Advisor
President:	Devin Denner
VP Sales:	Tom Christie, reports to the President
VP Mfg.	Ed Williams, reports to President
VP Supply Chain:	Tiny Norden, reports to President
Production Scheduler:	Jennifer Zuver, reports to the VP Supply Chain
Quality Manager:	Jack Horner, reports to VP Manufacturing
Senior Tech. Advisor.:	Larry Muller, reports to VP Manufacturing

If you need any additional information, please call or e-mail me at jhorner@chasebrass.com.

Sincerely,

Jack Horner
Quality Manager

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Bureau Veritas Certification

WIELAND CHASE, LLC

14212 SELWYN DRIVE MONTPELIER, OH 43543 USA

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2015

Scope of certification

MANUFACTURE OF BRASS ALLOY ROD AND FORGINGS

Original cycle start date:	11-February-1996
Expiry date of previous cycle:	18-May-2017
Certification / Recertification Audit date:	17-March-2017
Certification / Recertification cycle start date:	18-May-2017
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	18-May-2020

Certificate No. : US011716 Version: 3 Issue Date: 18-November-2019

Certification Body Address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

Local Office: 16800 Greenspoint Park Drive, Suite 300S, Houston, TX 77060, USA

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.

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ISO 9001:2015

Scope of certification

MANUFACTURE OF BRASS ALLOY ROD AND FORGINGS

DRAFT

Original Cycle Start Date:	11-February-1996
Expiry date of previous cycle:	18-May-2017
Certification / Recertification Audit date:	17-March-2017
Certification / Recertification cycle start date:	08-May-2017
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	18-December-2020

Certificate No. : US011716 Version: 4 Issue Date: 19-May-2020

UKAS MANAGEMENT SYSTEMS 0008

Certification Body Address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

Local Office: 16800 Greenspoint Park Drive, Suite 300S, Houston, TX 77060, USA

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.
To check this certificate validity please call: +(800) 937-9311

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