

Dear Customer,

November 24, 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 is produced to meet the most recent ASTM specifications as listed in Table 1 for the alloys noted in the half hard temper (H02) condition. 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        | Chemistry only  |
|                     | B283        | Chemistry only (hot pressed forgings)   |
|                     | B927        | Chemistry & tensile properties  |
| C36000              | B16         | Rod - Chemistry, tensile & hardness properties<br>Cast & Turned/Billet items - Chemistry only |
| 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        | Chemistry only  |
|                     | B283        | Chemistry only (hot pressed forgings)   |
|                     | B981        | Chemistry & tensile properties  |
| C37700              | B124        | Chemistry only  |
|                     | B283        | Chemistry only (hot pressed forgings)   |
|                     | B981        | Chemistry & tensile properties (rod products)   |
| C69300<br>Eco Brass | B124        | Chemistry only  |
|                     | B283        | Chemistry only (hot pressed forgings)   |
|                     | B371        | Chemistry & tensile properties (rod products)   |
| 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



**REACH Declaration** – Wieland Chase maintains an updated copy of REACH declaration information on the company webpage [www.wieland-chase.com](http://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](http://www.wieland-chase.com)

**Proposition 65 Statement** - Wieland Chase maintains updated Prop 65 information on the company webpage [www.wieland-chase.com](http://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<sup>0</sup> F for 75 minutes at temperature and air-cooled. NOTE: C69300 (Eco Brass) is not stress relieved.



**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-accredited 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 May 18, 2023 as shown on the attached UKAS certification.

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:

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

If you need any additional information, please call or e-mail me at [jhorner@chasebrass.com](mailto:jhorner@chasebrass.com).

Sincerely,



Jack Horner  
Quality Manager





Bureau Veritas Certification

# WIELAND CHASE, LLC

14212 SELWYN DRIVE MONTEPELIER, 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-2020       |
| Certification / Recertification Audit date:   | 19-September-2020 |
| Certification / Recertification cycle start date:   | 18-November-2020  |
| Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: | 18-May-2023       |

|                  |                 |          |          |             |                         |
|------------------|-----------------|----------|----------|-------------|-------------------------|
| Certificate No.: | <b>US014564</b> | Version: | <b>1</b> | Issue Date: | <b>18-November-2020</b> |
|------------------|-----------------|----------|----------|-------------|-------------------------|

*David Vinn*



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

*Local Office: 16800 Greenspoint Park Drive, Suite 3005, Houston, TX 77060, USA*

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +1(800) 937-9311

