

Dear Customer,

April 3, 2024

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;
- 7) PFAS (polyfluoroalkyl substances) free.

All Wieland Chase materials are produced to meet the most recent ASTM specifications as listed in Table 1 for the alloys noted in the half hard temper (H02) condition for rod products; as-cast for cast & turned products; and cast in granular ingot form. Wieland Chase rod products are not subject to weld repair; and 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.*	Product Form	Meets Requirements For
C27450	B124	Rod	Chemistry only
	B283	Forgings	Chemistry only (hot pressed forgings)
	B927	Rod	Chemistry & tensile properties
C36000	B16	Rod	Rod - Chemistry, tensile & hardness properties
		As-Cast	Cast & Turned/Billet items - Chemistry only
C34500	B453	Rod	Chemistry, tensile & hardness properties
C35000	B453	Rod	Chemistry, tensile & hardness properties
C35300	B453	Rod	Chemistry, tensile & hardness properties
C36300	B981	Rod	Chemistry, tensile properties
C37000	B124	Rod	Chemistry only
	B283	Forgings	Chemistry only (hot pressed forgings)
	B981	Rod	Chemistry & tensile properties
C37700	B124	Rod	Chemistry only
	B283	Forgings	Chemistry only (hot pressed forgings)
	B981	Rod	Chemistry & tensile properties (rod products)
C69300 Eco Brass	B124	Rod	Chemistry only
	B283	Forgings	Chemistry only (hot pressed forgings)
	B371	Rod	Chemistry & tensile properties (rod products)
All	B249	Rod	Rod & Bar Dimensional tolerances
		As-Cast	Cast & Turned Billet
C87850 Eco Bronze	B30	Granular Ingot As-Cast	Chemistry Only (EZ-Melt)

* 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 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 rod alloys supplied by Wieland Chase do not contain any Conflict Minerals (gold, tantalum, tin, and tungsten) necessary for the functionality or production of those alloys. Wieland Chase maintains an updated copy of the most recent CMRT declaration form on the company webpage www.wieland-chase.com.

TSCA Restrictions (PBT) – The rod alloys produced and supplied by Wieland Chase do not contain any of the five PBT chemicals cited in the January 6, 2021, the U.S. Environmental Protection Agency (EPA) final rules under **Toxic Substances Control Act (TSCA) Section 6 (h)**.

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° 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, 2026 as shown on the attached ANAB 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>President, Wieland Chase NA:</u> | Devin Denner |
| <u>VP Commercial, & GM ForgeWorks:</u> | Tom Christie, reports to the President |
| <u>VP Manufacturing:</u> | Ed Williams, reports to President |
| <u>VP Supply Chain & Business Analytics:</u> | Tony Norden, reports to President |
| <u>Manager, Production Control:</u> | Jennifer Zuver, reports to the VP Supply Chain |
| <u>Quality Manager (ISO Contact):</u> | Jack Horner, reports to VP Manufacturing |
| <u>Senior Technical Advisor:</u> | Larry Muller, reports to VP Manufacturing |

If you need any additional information, please call, or e-mail me at jack.horner@wieland.com.

Sincerely,

Jack Horner
Quality Manager
Wieland Chase, LLC



Certificate US23/00000084



The management system of

Wieland Chase, LLC

14212 Selwyn Drive, Montpelier, OH, 43543, United States Of America

has been assessed and certified as meeting the requirements of
ISO 9001:2015

For the following activities

Manufacture of Brass Rod, Forgings, Machined Forgings and Granular Ingot.

This certificate is valid from 18 May 2023 until 18 May 2026 and remains valid subject to satisfactory surveillance audits.

Issue 2. Certified since 16 February 2023.

Certified activities performed by additional sites are listed on subsequent pages.

Organization certified since 11 February 1996 under USo14564 and first certified by SGS under ANAB since 16 February 2023.

Authorised by
Vigaruddin Mohammed
Technical Accreditation Manager
Knowledge, North America

SGS North America Inc.
201 Route 17 North Rutherford, NJ 07070
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ISO 9001:2015

Issue 2
Sites
Wieland Chase, LLC 14212 Selwyn Drive, Montpelier, OH, 43543, United States Of America
Manufacture of rod and granular ingot products.
Wieland Chase, LLC 1812 Magda Drive, Montpelier, OH, 43543, United States Of America
Manufacture of forgings and machined forgings.



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