wieland chase

Keeping You In Compliance

On January 1, 2024 the NSF/ANSI/CAN 61 Section 9 Lead Leachate Standard will become mandatory

Be ready with our lead-free* and low-lead brass solutions

We have excellent American-made brass solutions that will ensure you comply with the current and coming standards. Our three brass options, ECO FORGE®, ECO BRASS® and Low Lead Brass, have been successfully used for part production and are the ideal fit to keep your components compliant as we move toward 2024.

Select the brass alloy that works best for the products you are manufacturing. These three options provide sound solutions to continue operating in compliance with NSF/ANSI/CAN 61, Section 9 lead leachate standard.

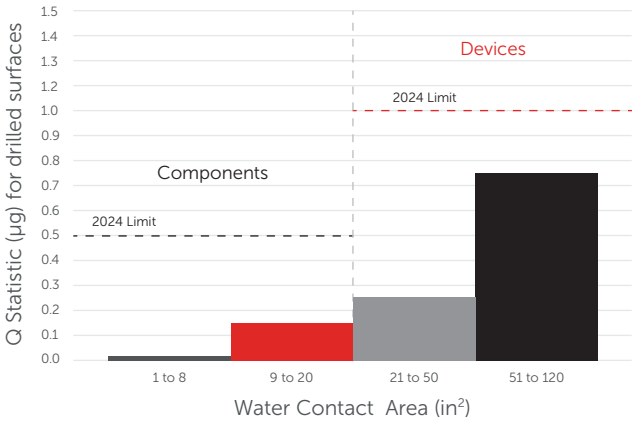
NSF/ANSI/CAN 61 SECTION 9 REQUIREMENTS:

- Mandatory January 1, 2024
- Reduced from 5 to 1 µg for endpoint devices (e.g., faucets)
- Reduced from 3 to 0.5 µg for components (e.g., valves)

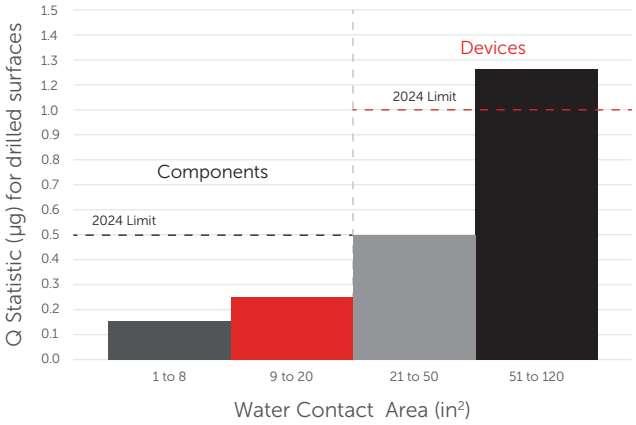
Average "Q" values for drilled, water contact surfaces, Extrapolated to 8,20,50 and 120 in²

	AREA (in²)
Small Components - Fittings, shut-off valves, valve cartridges, center body tees, aerator housings	1 to 8
Large Components - Faucet bodies & Faucet spouts	9 to 20
Small Devices - Bathroom faucets	21 to 50
Large Devices - Kitchen faucets, drinking fountain bubblers	51 to 120

Lead-free* ECO BRASS® C69300 and ECO FORGE® C69850: compliant for small components and devices as well as large components



LOW LEAD BRASS C27450: compliant for all components, and small devices



* This product complies with 0.25% weighted average lead content on wetted surfaces in accordance with Safe Drinking Water Act (SDWA) / Federal Public Law No. 111-380.

ECO BRASS®
HIGH PERFORMANCE SILICON BRASS

The mechanical properties and chemical composition of these alloys will meet your product's requirements. Our experts at Wieland Chase are here to discuss your specific manufacturing needs to ensure a smooth transition to a new alloy if needed.

Alloy Properties and Machinability

Property	C69300 ECO BRASS®[1]	C69850 ECO FORGE®[1]	C27450 LOW LEAD®[1]
Tensile Strength (ksi)	90	77	63
Yield Strength (ksi)	48	55	40
Elongation (%)	35	22	28
Mid-Radius Hardness (Rb)	88	87	74
Dezinc. Depth (µm)[2]	0	40	400
Machinability (vs C360)[3]	85	82	70

[1] Typical mechanical properties for 1.000" RD H02 temperature rod
[2] Average of maximum dezincification depth values from Corrosion Testing Lab, Newark DE
[3] Based on production experience and independent lab testing machinability rated at 100% for single point machining

Nominal Alloy Composition (with ASTM Ranges)

Alloy	C69300 ECO BRASS®	C69850 ECO FORGE®	C27450 LOW LEAD®
Copper (%) Nominal ASTM	75.3 73-77	68.4 67.5-69	61.6 60-65
Lead (%) Nominal ASTM	0.05 0.09 max	0.05 0.09 max	0.18 0.25 max
Silicon (%) Nominal ASTM	2.9 2.7-3.4	1.7 1.53-2.0	-
Phos. (%) Nominal ASTM	0.1 0.04-0.15	0.09 0.04-0.15	-
Zinc (Approx. %) Nominal ASTM	21.5 Remainder	29.8 Remainder	38 Remainder

For further information please contact:
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To learn more about these alloys visit
www.wieland-chase.com

MADE IN THE USA

The values listed on this page represent reasonable approximations suitable for general engineering use. Due to commercial variations in compositions and to manufacturing limitations, they should not be used for specification purposes. See applicable ASTM International specification references.