



**Non-Flammable Critical Vapor Degreasing and Cleaning Solvent
 (Non-Chlorinated / Non-Brominated)**

Metal Compatibility Summary

AeroTron-L solvent is specifically designed for compatibility with white metals, ferrous metals, precious metals and alloys in a variety of cleaning applications including immersion, vapor degreasing, ultrasonic and cold wipe cleaning.

Compatibility Testing for corrosion, etching, pitting, discoloration and other signs of degradation were conducted on AeroTron-L in reflux and immersion environments. Metal coupons were prepared, tested and analyzed in accordance with Mil.T-81533A 4.4.9 and TM0193-2000, with the following results¹:

Legend: A= Liquid Immersion Area, B= Liquid/Vapor Interface Area, C= Vapor Only Area, n/e = no effects observed, m/e = minor effects, and s/e = significant effects

White Metals and Alloys

| Metal Specimen | Compatibility with AeroTron-CE ¹ | Reflux Testing ² | | | Immersion Testing ³ | | |
|----------------|---|-----------------------------|-----|-----|--------------------------------|-----|-----|
| | | A | B | C | D | E | F |
| Aluminum 1050 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Hastalloy –B | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Inconel 600 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Magnesium | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Nickel | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Titanium 5-2.5 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Zinc | Yes | n/e | n/e | n/e | n/e | n/e | n/e |

Copper and Alloys

| Metal Specimen | Compatibility with AeroTron-CE ¹ | Reflux Testing ² | | | Immersion Testing ³ | | |
|------------------|---|-----------------------------|-----|-----|--------------------------------|-----|-----|
| | | A | B | C | D | E | F |
| Copper | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Al -Bronze 614 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Tin – Bronze 903 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Naval Brass 464 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |

Ferrous Metals and Alloys:

| Metal Specimen | Compatibility with AeroTron-CE ¹ | Reflux Testing ² | | | Immersion Testing ³ | | |
|------------------|---|-----------------------------|-----|-----|--------------------------------|-----|-----|
| | | A | B | C | D | E | F |
| Iron | | | | | | | |
| Mild Steel | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Stainless 303 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Stainless 316 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Stainless 330 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Carbon Steel | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Tungsten Carbide | Yes | n/e | n/e | n/e | n/e | n/e | n/e |

Lead and Solders:

| Metal Specimen | Compatibility with AeroTron-CE ¹ | Reflux Testing ² | | | Immersion Testing ³ | | |
|---------------------|---|-----------------------------|-----|-----|--------------------------------|-----|-----|
| | | A | B | C | D | E | F |
| Lead | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| 5 Sn/ 95Pb | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| 70 Sn/30Pb | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Silver Solder B AG8 | Yes | n/e | n/e | n/e | n/e | n/e | n/e |

Other Pure Metals:

| Metal Specimen | Compatibility with AeroTron-CE ¹ | Reflux Testing ² | | | Immersion Testing ² | | |
|----------------|---|-----------------------------|-----|-----|--------------------------------|-----|-----|
| | | A | B | C | D | E | F |
| Tin | Yes | n/e | n/e | n/e | n/e | n/e | n/e |
| Silver | Yes | n/e | n/e | n/e | n/e | n/e | n/e |

FOOTNOTES:

1. As with any generalized testing, the results of our Metal Compatibility Testing represents outcomes within the specific parameters and conditions of the tests conducted and are provided for general guidance only. The User is responsible for testing for compatibility with their specific substrate in the context of their cleaning operation. Reliance Specialty Products, Inc. disclaims all warranties, actual or implied, in connection with this testing and compatibility for any particular application.
2. Metal coupons were prepared and tested in a reflux environment in accordance with Mil-T-81533A 4.4.9 for a period of 24 hours.
3. Metal coupons were prepared and tested in an immersion environment in accordance with NACE Standard TM193-2000 "Laboratory Corrosion Testing of Metals in Static Chemical Cleaning Solutions at Temperatures below 93°C (200°F).