



## Approved for Use Under BOEING BAC5408

- Approved for use on Titanium
- Non-Flammable
- Non-Chlorinated
- US-EPA SNAP Approved
- Approved to ASTM-D-6368
- Recyclable

# BAC5408

## Approved Vapor Degreasing Solvent

*EnTron-Aero has been tested in Boeing's Material Testing Labs in Seattle and is now approved for Aerospace Vapor Degreasing under Boeing's BAC5408 (see Boeing PSD6-67 for EnTron-Aero's approval).*

### Ideal Drop-In Replacement for Chlorinated Solvents: Trichloroethylene & Perchloroethylene

Aerospace industry users know that cleaning to exacting standards is paramount to quality. EnTron-Aero is a powerful, safe solvent and is a direct replacement for TCE and PERC. The physical properties (no flashpoint, 160°F boiling point, solvency power, stability, easily distilled) and favorable regulatory profile make EnTron-Aero ideal for replacing chlorinated solvents in aerospace cleaning operations.

#### Regulatory Profile

	EnTron-Aero	TCE
NESHAP Reporting	NOT Required	Required
RCRA	NON-Hazardous Waste	Hazardous Waste
DOT	NOT Regulated	Yes, Regulated
Title V Permit	NOT Required	Required
CERCLA	Regulated over 20,000 lbs. 24 hrs.	Regulated over 110lbs. 24 hrs.
OSHA HAZCOM Record Keeping Reporting	NOT Required	Hazard Warning Required
Prop 65, CA	Yes	Yes
Clean Water Act	NOT Regulated	Regulated
VOC	Yes, Petition for Exemption Filed with US-EPA	Yes
IARC Cancer Class	NOT Listed	Carcinogen Group 2A
US-EPA SNAP Approved	Yes	Yes

### EnTron-Aero is Cost-Effective

We recognize that the total cost of cleaning is more than just the cost of the solvent. That is why with EnTron-Aero we provide a full compliment of performance characteristics that enhance the cost-effectiveness of EnTron-Aero:

- Excellent Soil Loading
- Extensive Bath Life and Stability
- Disposal Savings with our free-to-use EnTron-Aero Spent Solvent Disposal Program
- Continued use of existing degreasing equipment
- Easily Distillable

#### Performance Properties

	EnTron-Aero	TCE	PERC
Boiling Point	160° F/71°C	188° F/87°C	250° F/121°C
Flash Point	None	None	None
KB Value	130	129	90
Specific Gravity	1.31	1.46	1.62
Evaporation Rate	4.7	3.0	1.5
Vapor Pressure (mmHg)	134	60	18
Vapor Density	4.3	4.53	5.76
Specific Heat	0.26	0.23	0.21
Water Solubility @25°C g/100ml	0.24	0.11	0.015
Surface Tension (dynes/cm)	26.1	29.5	31.8
Dielectric Strength	27,000	varies	varies
Viscosity	0.5	0.49	0.84

#### Technical Specification

	EnTron-Aero	TCE	PERC
Non-Volatile Residue	< 10 ppm	varies	varies
Acidity (as HCl)	< 0.0010	varies	varies
Water Weight % Maximum	< 0.02	varies	varies
Acid Acceptance	> 0.19	varies	varies
Free Halogen	Passes Test	varies	varies



## Specially Formulated for Material Compatibility in Aerospace Cleaning

EnTron-Aero is a technologically advanced nPB solvent which produces consistent performance results in aerospace cleaning operations.

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### Expert Technical Support With Every Drum

To assist your switch to EnTron-Aero and on-going cleaning operations, the Reliance Technical Engineering Team of industry experts in vapor degreasing, vapor degreasing equipment, chemistry and regulatory compliance is here to ensure your success.

#### Our Comprehensive Transition Program includes:

- ↔ **Validation Performance Testing**
  - Free sample of EnTron-Aero
  - Free performance testing of sample parts
  - Full range of vapor degreasing & ultrasonic capability in the Reliance Vapor Degreaser Test Cleaning Labs for large and small parts
- ↔ **Switch-Over & Continuing Production Services**
  - Vapor Degreaser Consultation and Technical Support
  - Vapor Degreaser engineering, modification & repair services
  - Analytical Lab with solvent analysis services
  - Worker Training & Exposure Monitoring Badges with Analysis
  - Regulatory Support – Air permitting, HS&E Support
  - EnTron-Aero Bath Quality Monitoring Kit & Support
  - EnTron-Aero Spent Solvent Disposal Program

AEROSPACE METALS (Tested to ARP 1755B)		ELECTROPLATE and PLASMA COATINGS (Tested to ARP 1755B)	
AMS 4037 Aluminum	Passes	AMS 4037/AMS 2470 Anodic Treatment	Passes
AMS 4375 Magnesium	Passes	AMS 5504/AMS 2400 Cadmium Plate	Passes
AMS 4434 Magnesium	Passes	AMS 5504/ AMS 2406 Chromium Plate	Passes
AMS 4442 Magnesium	Passes	AMS 5504/AMS 2410 Silver Plate	Passes
AMS 4507 Copper	Passes	AMS 5504/ AMS 2416 Ni-Cad Plate	Passes
AMS 4544 Nickel	Passes	AMS 5504/ AMS 2418 Copper Plate	Passes
AMS 4640 Al Bronze	Passes	AMS 5504/AMS 2424 Nickel Plate	Passes
<b>AMS 4911 Titanium</b>	<b>Passes</b>	AMS 4911/AMS 2437-3 Plasma Coat	Passes
AMS 5040 Steel	Passes	AMS 5504/AMS 2437-2 Plasma Coat	Passes
AMS 5382 Cobalt	Passes	AMS 5504/AMS 2437-3 Plasma Coat	Passes
AMS 5504 Steel	Passes	AMS 5504/ AMS 2437-5 Plasma Coat	Passes
AMS 5508 Steel	Passes	AMS 5504/ AMS 2437-6 Plasma Coat	Passes
AMS 5524 Steel	Passes	AMS 5504/ AMS 2437-7 Plasma Coat	Passes
AMS 5525 Steel	Passes		
AMS 5536 Nickel	Passes		
AMS 5537 Cobalt	Passes		
AMS 5596 Nickel	Passes		
AMS 5661 Nickel	Passes		
AMS 6431 Steel	Passes		

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