

## EMS AeroSolutions Carbon Remover

NON-REGULATED, NON-SOLVENT AERONAUTIC CLEANER

- Non-Butyl
- Non-Petroleum
- 100% Biodegradable
- Boeing Approved
- Exceeds Mil Specs
- Safe on Helicopters
- Removes Soot
- Dissolves Carbon Scoring
- Non-D.O.T. Regulated
- MIL PRF 85570 D, Type 2
- Meets Boeing D6-17487P

AeroSolutions Carbon Remover is a safe yet potent cleaner, carbon remover and degreaser designed specifically for the aeronautic industry. The power comes from our patented SynClean, a hydro-carbon displacement technology that safely removes soot, grease, and grime in numerous industries.

SynClean safely lifts grease from any surface without the use of solvents. As such it is able to remove petroleum based oils, grease, carbon scoring, dirt, fuel spills, without endangering your equipment or the environment.

AS-Carbon Remover has been tested and proven to effectively remove carbon build-up that is common to all aircraft. Without harm to the seals and gaskets. Contains a safe blend of detergents, wetting agents, sequestering agents, penetrates, rust and corrosion inhibitors.

As with all EMS formulations, AS-Carbon Remover is a water soluble, non-butyl, biodegradable, non-flammable, non-toxic product. It is delivered as a potent concentrate which costs only pennies per diluted gallon to use. Pleasantly scented and stainless, AS-Carbon Remover leaves no oily film or gummy residue.

AeroSolutions Carbon Remover meets or exceeds military specifications # MIL-PFR-85570D, SUPERSEDING, is approved for all Boeing aircraft and related parts, and is even safe on helicopters. We are also proud to be on the Priority Procurement List for the U.S. Air Force and NASA for the cleaning of its air/space craft.



## Technical Data

NITRATE LEVEL: 0% - None  
FORM: Liquid  
ODOR: Soapy Odor  
COLD STABILITY: -16° F  
DETERGENCY: Strong  
TOXICITY: Non Toxic  
WETTING ABILITY: Excellent  
STORAGE STABILITY: 3 Years+

SHIPPER REGULATIONS: None  
FLASH POINT: None  
BOILING POINT: 212° F  
SOLUBILITY IN WATER: 100%  
BIODEGRADABLE: Yes/100%  
VOLATILE BY VOLUME: N/A  
CARCINOGENS: None  
VISCOSITY: Thin

## Common Uses

AS Carbon Remover is a super concentrated industrial cleaner which at different dilutions can be used in almost countless environments.

### Cleaning Uses

Aircraft  
Helicopters  
Military Equipment  
Heavy Equipment  
Vehicles  
Industrial Plants  
Mills  
Schools  
Drilling Rigs  
Ready Mix Equipment

## Metal Studies

Dept. of Transportation (D.O.T.) Test Protocols as per Section 173.154  
Exceptions for Class 8 (corrosive materials): The material being tested must be proven to be non-destructive or not to cause irreversible alterations in human skin tissue. Testing was conducted on an albino rabbit.

Conclusion: AS Carbon Remover proven to be NON-DESTRUCTIVE on human skin tissue.

Metal Test Limits: D.O.T. Classifies a material to be CORROSIVE if it has a corrosion rate that exceeds 6.25 mmpy on SAE C1020 carbon steel or 7075-Y6 Aluminum.

Results of AS Carbon Remover: SAE 1020 carbon steel = 0.00 mmpy  
7075-Y6 aluminum = 0.00 mmpy

Conclusion: AS Carbon Remover is NON-CORROSIVE

## Dilution Specifications

Please refer to the product label.

## Toxicity Studies

Toxicity Limits: Test Procedure OECD 202, 48 hr.  
LC 50 and LD 50 (rat oral) scores found AS CR to be NON-TOXIC.

Mutagenicity Limits: OECD Guidelines Sec. 471 Chemicals  
Carbon Remover was found NOT TO BE MUTAGENIC

### Dermal Irritation & Corrosion Test

A modified Draize method was used as described in OECD Guidelines for the Testing of Chemicals Sec. 404 and complies with the requirements of OECD Principles of GLP, Annex revised as of July 1992.

AS Carbon Remover received a Primary Irritation Score of 0.6 +/-0.1 and is classified as a "Very Mild Skin Irritant"

### Biodegradation & Aquatic Safety

Test Procedure: Hach Reactor Digestion method for Waste Water and Sea Water. Hach Reactor Digestion Method is a semi-micro adaptation of the Standard Methods.

Test Results Conclude AS Carbon Remover was found to be 100% Biodegradable

COD = Low Detectable Limits

BOD = No Detectable Limits

## Classifications & Approvals

D.O.T., TDG, IMO, IATA, IMDG, SARA 313 311/312, California Prop 65  
NON-Regulated

### FDA

Approved as Safe (GRAS) (CGMP) CFR 184.1923

### USDA Authorization

A1, A2, A4, A8, C1

### Mil Spec

MIL PRF 85570 D, Type 2

### Boeing

D6-17487

Additional Studies & Results: When tested, AeroSolution Carbon Remover showed no potential for the generation of Carbon Dioxide under NIOSH 7903, OSHA & ACGIH testing protocols governing workplace environments.