



BONDERITE S-AD 5555B AERO

Known as TURCO 5555 B
November 2013

PRODUCT DESCRIPTION

BONDERITE S-AD 5555B AERO provides the following product characteristics:

Technology	Metal Pre-Treatment
Product Type	Paint Stripper
Application	Immersion

BONDERITE S-AD 5555B AERO is an effective hot-tank, diphase-liquid paint remover that is particularly useful in the removal of paint from aircraft wheels and aircraft components. BONDERITE S-AD 5555B AERO is excellent for the removal of Skydrol residues, synthetic oil and carbon deposits, baked phenolic resins, acrylics, nitrocellulose lacquers, certain epoxy and polyurethane finishes from steel and reactive metals such as aluminum and MIL-M-3171 coated magnesium alloys. Do not use on bare magnesium alloys.

Application Areas

BONDERITE S-AD 5555B AERO offers these features:

1. Meets corrosion requirements and passes embrittlement test of MIL-R-83936
2. Will not harm most aircraft metals, conversion coatings, anodize, cadmium and Dow coatings
3. Flash point 75°C, Pensky Martens
4. Long life: BONDERITE S-AD 5555B AERO, being a diphase material, carries a non-aqueous chemical seal which minimizes evaporation and drag-out loss and extends the effective life of the stripping action
5. It is free of chromate, phenols, chlorinated solvents, phosphates and arsenate

TECHNICAL DATA

Appearance	2 phase liquid
Free alkalinity, ml	43.5 to 50.1
Total alkalinity, ml	56.9 to 62.9

DIRECTION OF USE

Preliminary Statement

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and

safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Use instructions

Equipment:

Tanks and associated equipment should be fabricated from mild steel.

Precleaning:

Parts that contain oils, grease and soils should be precleaned to avoid contaminating the BONDERITE S-AD 5555B AERO solution. Use an emulsion or alkaline type cleaner.

Applications:

Immerse parts in the BONDERITE S-AD 5555B AERO making sure the part is under the seal layer. The recommended temperature for the most efficient stripping action is 55° to 70°C. At this recommended temperature most paints will be removed after immersions in BONDERITE S-AD 5555B AERO for 15 minutes to 2 hours. Remove parts allowing the excess BONDERITE S-AD 5555B AERO to drain back into the tank.

Rinsing:

Rinse parts with high pressure tap water or steam.

Control Procedure for BONDERITE S-AD 5555B AERO

Apparatus

- Pipette 5 ml
- 100 ml graduated cylinder
- Buret
- Weighing Balance
- 250 ml beaker
- pH meter

Reagents

- 1.0 N sulphuric acid



- 1. Temperature:
 - 1.1 Maintain the temperature in range 50° to 70° C. Do not exceed 70° C to avoid loss of volatile ingredients and minimize chemical break-down.
- 2. Liquid Seal:
 - 2.1 The depth of the seal should be maintained at a minimum of 10 cm thick or in the range of 10- 15% of the total volume of solution in the tank. Add sufficient BONDERITE S-AD 5555B AD1 AERO until the proper volume is attained.
 - 2.2 The height of the solvent should be adjusted as necessary to insure that the uppermost point on all parts being cleaned are completely submerged. The parts should be at least 5 cm below the bottom of the seal layer.
- 3. Lower Layer- Alkalinity Test:
 - 3.1 The total alkalinity of the solvent is determined by taking a sample of only the lower layer.
 - 3.2 Pipet 5 mL of the lower layer into a beaker (WARNING!! Check MSDS, wear safety glasses and protective clothing) and add 100 mL distilled water.
 - 3.3 Titrate with 1.0 N sulfuric acid (Warning!! Check MSDS, wear safety glasses and protective clothing) to pH 5 using a pH meter.

Maintenance

- 1. Liquid Seal: 10 cm thick or 10-15 % by volume using BONDERITE S-AD 5555B AD1 AERO.
- 2. Alkalinity: 26-32 mL range
 - 2.1 To increase the alkalinity add 1.2 l of BONDERITE S-AD 5555B AD2 AERO per 100 l of lower layer for every 1.0 ml the alkalinity is below 26 ml.
 - 2.2 To decrease the alkalinity add 2 l of BONDERITE S-AD 5555B AD3 AERO per 100 l of lower layer for every 1.0 ml the alkalinity is above 32 ml.
 - 2.3 The principal loss of alkalinity will be due to drag-out. Parts should be positioned to minimize drag out.

Storage

Temperature, °C	0 to 50
Shelf-life (in unopened original packaging), months	24

Classification

Please refer to the corresponding **Material Safety Data**

Sheets for details on:

Hazardous Information
Transport Regulations
Safety Regulations

ADDITIONAL INFORMATION

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 0.0