

**Brady B-854 Metal Detectable Label for Harsh Washdown Environments**

TDS No. B-854  
 Effective Date: 03/26/2015

**Description:**

Brady B-854 Toughwash™ Metal Detectable Label is a durable, print on demand pressure sensitive adhesive product for the Food and Beverage Processing Industry, designed for use in cartridge form with the BBP® 31 Sign and Label Printer, BBP® 33 Label Printer, BMP® 71 Label Printer, and Globalmark® Industrial Label Maker.

**Details:**

**Use:**

Brady B-854 is used for Facility Marking, Warning Panels, Safety Signs, Arc Flash and Visual Workplace labels  
 Brady B-854 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

**Special Properties:**

Capable of being detected by commercially available metal detectors  
 (individual detection levels will vary based on detector set up, Brady recommends testing labels for detection before installation)

Durable label construction is tough against harsh washdown environments and has been tested at washdown temperatures up to 175° F (80° C) and pressures up to 1500 PSI. Individual performance will vary based on application location and specific washdown conditions and procedures.

**Substrate Type:**

Polyester

**Standard Material Colors:**

White, Yellow

**Thickness (PSTC-133)**

.009 in. (.2mm)

**Adhesive Properties**

Adhesion to Steel (PSTC-101)  
 15 Minute Dwell (Avg.) -- 65 oz/in (71 N/100mm)  
 Ultimate Dwell (72 hrs) (Avg.) -- 105 oz/in (115 N/100mm)

**Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A)**

CS-10 wheels, 500 g wts  
 The printed legend withstands up to 250 cycles

**Minimum Application Temperature**

40° F (4°C)

**Service Temperature:**

-40° F to 230° F (-40° C to 110° C)

**Printing Recommendations:**

Brady B-854 is not recommended for printing with 8 pt font or smaller, 10 mil density barcodes, or large font inverse-printing.

**Recommended Ribbon Series**

Brady B-854 should only be used with the R-6000 ribbon series for the BMP71 Printer, BBP31 Printer, and BBP33 Printer. When using the GlobalMark Sign & Label Printer, B-854 should only be used with the Harsh Washdown Ribbon (134352). No other ribbon series is qualified for use with this material.

**Chemical Resistance**

Brady B-854 has been developed and tested for durability against a variety of Food and Beverage Industry cleaning and sanitizing solutions. Samples were printed with R6000 ribbon on the BBP® 31 Sign and Label Printer, laminated to 304 stainless steel 2B finish panels and soaked in solutions containing the following reagents:

Reagent	Type	Condition	Print Performance	Adhesive Performance
Enforce™ LP	chlorinated alkaline cleaner	50°C	NE	NE

HD PL-10™ Plus	inorganic acid cleaner	RT	NE	NE
Heavy Duty Acid LC-30	strong acid cleaner	70°C	NE	NE
Soil Off™ II	alkaline/near neutral cleaner	50°C	NE	NE
Madisan 75	quaternary amine sanitizer	RT	NE	NE
Vortexx™	peroxy acid/organic acid sanitizer	50°C	NE	NE
XY-12®	sodium hypochlorite sanitizer	RT	NE	NE

NE = No Effect

NT = Not Tested

F = Failed (text deterioration or sample delamination)

Chemical Resistance testing in the above chemicals was performed by completing 10 cycles of 10 minute dips with 20 minute rest periods between cycles. After the 10th cycle sample text was rubbed with a cotton-tip swab.

### **Shelf Life**

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **two years from the date of receipt** for this product as long as this product is stored in its original packaging in an environment *below 80 degrees F (27°C) and 60% RH*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

### **Performance Expectations**

The performance of ToughWash signs, tags and labels may vary based upon the specific environment it is subjected to (including variation in chemicals, water pressure, water temperature, and abrasive materials used during the wash down process). To ensure the performance meets user's requirements, ToughWash signs, tags and labels should be tested in user's specific environment with consistent monitoring. Please visit [BradyID.com/food](http://BradyID.com/food) to order test samples and view more detailed product technical specifications.

### **Trademarks:**

ANSI: American National Standards Institute (U.S.A.)

ASTM: American Society for Testing and Materials (U.S.A.)

BBP® 31 is a registered trademark of Brady Worldwide, Inc.

BMP® 71 is a registered trademark of Brady Worldwide, Inc.

Enforce™ is a trademark of Ecolab USA Inc.

Globalmark® is a registered trademark of Brady Worldwide, Inc.

HD PL-10™ Plus is a trademark of Ecolab USA Inc.

PSTC: Pressure Sensitive Tape Council (U.S.A.)

Soil Off™ II is a trademark of Ecolab USA Inc.

Toughwash® is a registered trademark of Brady Worldwide Inc.

Vortexx™ is a trademark of Ecolab USA Inc.

XY-12® is a registered trademark of Ecolab USA Inc.

**Note:** All values shown are averages and should not be used for specification purposes.

Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

### **WARRANTY**

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no

circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

Copyright 2016 Brady Worldwide, Inc. | All Rights Reserved  
Material may not be reproduced or distributed in any form without written permission.

---

Brady North America | 6555 W. Good Hope Rd | Milwaukee, WI 53223 | USA | Tel: 414-358-6600 | Fax: 800-292-2289