

## BRADY B-7316 - 316 STAINLESS STEEL TAGS

TDS No. B-7316

Effective Date: 25/02/2022

### Description:

#### GENERAL

**Print Technology:** Laser etched or embossed

**Material Type:** 316 stainless steel

**Finish:** Gloss

### APPLICATIONS

Brady B-7316 stainless steel cable tags are designed for labeling pipes, cables and wire bundles. B-7316 is made from 316 stainless steel making it very corrosion resistant. The tags can be laser etched or embossed for printed legends that are extremely durable in harsh environments.

### REGULATORY/AGENCY APPROVALS

For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites:

In Canada: [www.bradycanada.ca/weee-rohs](http://www.bradycanada.ca/weee-rohs)

In Europe: [www.bradyeurope.com/rohs](http://www.bradyeurope.com/rohs)

In Japan: [www.bradycorp.jp/products/labelsuse/rohs](http://www.bradycorp.jp/products/labelsuse/rohs)

All other regions: [www.bradycorp.com/weee-rohs](http://www.bradycorp.com/weee-rohs)

### SPECIAL FEATURES

Details:

| PERFORMANCE PROPERTIES     | TEST METHOD   | TYPICAL RESULTS                  |
|----------------------------|---|----------------------------------|
| Thickness                  | ASTM D 1000   | 0,500 mm (0,020 in)              |
| High Service Temperature   | 30 days at 815°C (1500°F)                                   | No visible effect                |
| Low Service Temperature    | 30 days at -80°C (-112°F)                                   | No visible effect                |
| Weatherability             | ASTM G155, Cycle 1<br>1000 hours in Xenon Arc Weatherometer | No visible effect                |
| Salt Fog Resistance        | ASTM B 117<br>2000 hours in 5% salt fog solution chamber    | No visible effect                |
| Boiling Water Resistance   | Tag soaked in boiling water for 1 hour                      | No visible effect                |
| Liquid Nitrogen Resistance | Tag dipped in Liquid Nitrogen for 20 minutes                | No visible effect                |
| Flame Resistance           | Tag heated to cherry red                                    | Tag discolored but still legible |
| Thermal Cycle Resistance   | Tag heated to cherry red then dipped in Liquid Nitrogen     | Tag discolored but still legible |

| PERFORMANCE PROPERTY | CHEMICAL RESISTANCE |
|----------------------|---------------------|
|----------------------|---------------------|

Samples were marked by laser etching and embossing. Testing was conducted at room temperature. Unless otherwise noted results apply for both marking types.

| CHEMICAL REAGENT       | SUBJECTIVE OBSERVATION OF VISUAL CHANGE          |  |                        |
|------------------------|--|--|------------------------|
|                        | 7 DAY IMMERSION                                  | 24 HOUR IMMERSION                                | 1 HOUR IMMERSION       |
| Gasoline               | NVE  | NVE  | NVE                    |
| Water                  | NVE  | NVE  | NVE                    |
| Methyl Ethyl Ketone    | NVE  | NVE  | NVE                    |
| Mineral Spirits        | NVE  | NVE  | NVE                    |
| Xylene                 | NVE  | NVE  | NVE                    |
| Acetone                | NVE  | NVE  | NVE                    |
| Skydrol® 500B4         | NVE  | NVE  | NVE                    |
| Ethanol                | NVE  | NVE  | NVE                    |
| Isopropyl Alcohol      | NVE  | NVE  | NVE                    |
| Motor Oil              | NVE  | NVE  | NVE                    |
| Hydrochloric Acid 37%  | Tag dissolved                                    | Discolored but legible                           | Discolored but legible |
| Sulphuric Acid 50%     | Embossed discolored but legible, Laser illegible | Embossed discolored but legible, Laser illegible | Discolored but legible |
| Acetic Acid            | NVE  | NVE  | NVE                    |
| Sodium Hydroxide 25%   | NVE  | NVE  | NVE                    |
| Ammonium Hydroxide 20% | NVE  | NVE  | NVE                    |

NVE : No Visible Effect

#### Shelf Life:

Shelf life is 5 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° F (27° C) and 60% RH. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

#### Trademarks:

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

Skydrol® is a registered trademark of Solutia 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.

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