

Desiccant Port and Desiccant Holder

1. SCOPE:

This SAE Aerospace Standard (AS) describes the characteristics of a desiccant port installed through the flat wall of a shipping and storage container. With the cover removed, the desiccant port shall provide access to the interior of the container for installation and removal of desiccant.

2. APPLICABLE DOCUMENTS:

The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this specification and references cited herein, the text of this specification takes precedence. Nothing in this specification, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1 ASTM Publications:

Available from ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.

ASTM B 633 Electrodeposited Coatings of Zinc on Iron and Steel
ASTM B 841 Class 1 Type B -- Zinc Nickel Electro Plating
ASTM D 2000 Rubber Products in Automotive Applications

2.2 ANSI Publications:

Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ANSI/ASQC Z1.4 Sampling Procedures and Tables for Inspection by Attributes

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3. CLASSIFICATION:

This description covers desiccant ports as follows:

Type I: Desiccant Port, aluminum alloy body with 300 series stainless steel cover with tabs

Type II: Desiccant Port, aluminum alloy body with 300 series stainless steel cover without tabs

Type III: Desiccant Port, aluminum alloy body with zinc-nickel plated steel cover with tabs

Type IV: Desiccant Port, aluminum alloy body with zinc-nickel plated steel cover without tabs

Type V: Desiccant Port, aluminum alloy body with zinc plated steel cover with tabs

Type VI: Desiccant Port, aluminum alloy body with zinc plated steel cover without tabs

Style A: Cover with small hole, 26 mm (1.050 in) diameter

Style B: Cover with large hole, 52 mm (2.015 in) diameter

Style C: Cover with no hole

Class 1: Without desiccant holder

Class 2: With desiccant holder

Size A: 178 mm (7 in), long desiccant holder (holds two 8 unit bags)

Size B: 305 mm (12 in), long desiccant holder (holds four 8 unit bags)

Size C: 432 mm (17 in) long desiccant holder (holds six 8 unit bags)

4. SALIENT CHARACTERISTICS:

Tolerances on all parts shall be the same as those identified by the industry for that product. The desiccant port assembly shall have an expected service life of 20 years. The desiccant port shall be capable of functioning properly between -54 and +71 °C (-65 and +160 °F), when installed through a 102 mm (4.015 in) diameter hole in the wall of a reusable shipping and storage container, with a wall thickness up to 7 mm (0.30 in). The desiccant port shall be capable of maintaining the container environmental seal at 34 kPa (5 psig) pressure or 34 kPa (5 psig) vacuum. The desiccant port cover shall be capable of being removed by hand, requiring no tools to operate. With the cover removed, the desiccant port shall provide access to the interior volume of the desiccant holder for installation and removal of desiccant.