

Summary of differences of section 4.4.9 Gravelometer Test:

Current language:

4.4.9 Gravelometer Test

This test demonstrates how the substrate/coating system stands up to chipping commonly caused by shipping, storage, and installation.

Two panels, per Figure 6 – Gravelometer Coating Test Panel, are to be tested per ASTM D3170 at room temperature using 410 kPa (60 psig) gauge air pressure.

When the substrate is a material that visibly rusts when exposed to salt spray, expose the test panels for 24 hours in salt spray per ASTM B117. Remove from salt spray, rinse and dry panels. Evaluate panels per SAE J400 for quantity and size of rusted chipped areas. The minimum rating shall be 7B per SAE J400, and no rusted chip shall be greater than 2.0 mm (0.08 in) in diameter.

When the substrate is a material that does not visibly rust when exposed to salt spray, the chip marks of the coating system shall be evaluated. The coating system shall pass the requirements of this test if none of the chip marks exceed 2.0 mm (0.08 in) in diameter.

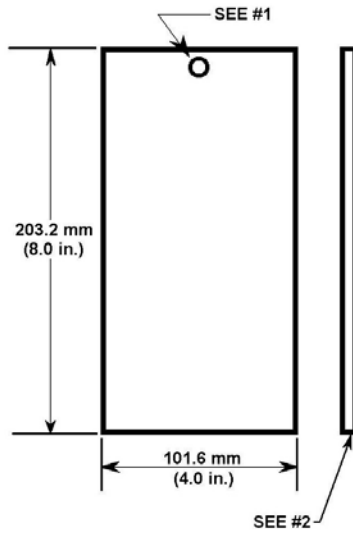


Figure 1 — Gravelometer Coating Test Panel

NOTE 1—Hole can be placed in panel for hanging for coating operations if required. Locate centered on short dimension and 3.2 mm (1/8 in) to edge of hole on long dimension. Recommended maximum hole size 14.3 mm (9/16 in) in diameter

NOTE 2—Test panels shall be made from typical production stock of the same material type and thickness used in the construction of the device for which the specified test is intended

Comment [JVH1]: All other docs: Simply "Gravelometer" (word "Test" is not included)

Comment [JVH2]: All other docs begin with: "The following test is required only for coated surfaces on the exterior of the enclosure."

Comment [JVH3]: All other docs: "Two coated panels, shown in..."

Comment [JVH4]: All other docs: "414 kPa"
Note: 414 kPa is correct conversion to 60 psig

Comment [JVH5]: C57.12.28: "The rating shall be 4B to 9B per SAE J400"
Note: per SAE J400, 'B' rated chips are 1-3 mm

Comment [JVH6]: C57.12.28: "3 mm"

Comment [JVH7]: All other docs: Not written in Title Case

Comment [JVH8]: All other docs: "#1" instead of "NOTE 1"

Comment [JVH9]: All other docs: "Panel thickness to be of typical production stock used in the manufacture of devices for which the test is intended."

Proposed language:

4.4.9 Gravelometer Test

This test demonstrates how the substrate/coating system stands up to chipping commonly caused by shipping, storage, and installation.

Two coated panels, shown in Figure 6 – Gravelometer Coating Test Panel, are to be tested per ASTM D3170 at room temperature using 414 kPa (60 psig) gauge air pressure.

When the substrate is a material that visibly rusts when exposed to salt spray, expose the test panels for 24 hours in salt spray per ASTM B117. Remove from salt spray, rinse and dry panels. Evaluate panels per SAE J400 for quantity and size of rusted chipped areas. The minimum rating shall be 7B per SAE J400, and no rusted chip shall be greater than 3.0 mm (0.12 in) in diameter.

When the substrate is a material that does not visibly rust when exposed to salt spray, the chip marks of the coating system shall be evaluated. The coating system shall pass the requirements of this test if none of the chip marks exceed 2.0 mm (0.08 in) in diameter.

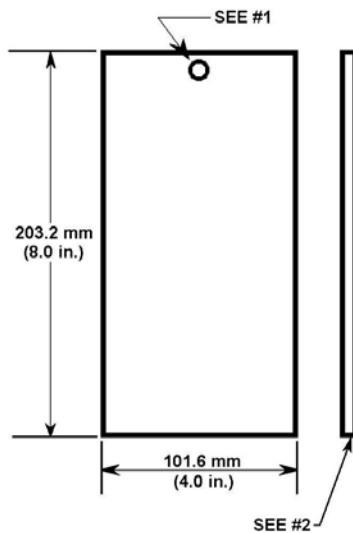


Figure 2 — Gravelometer Coating Test Panel

NOTE 1—Hole can be placed in panel for hanging for coating operations if required. Locate centered on short dimension and 3.2 mm (1/8 in) to edge of hole on long dimension. Recommended maximum hole size is 14.3 mm (9/16 in) in diameter.

NOTE 2—Test panels shall be made from typical production stock of the same material type and thickness used in the construction of the device for which the specified test is intended.