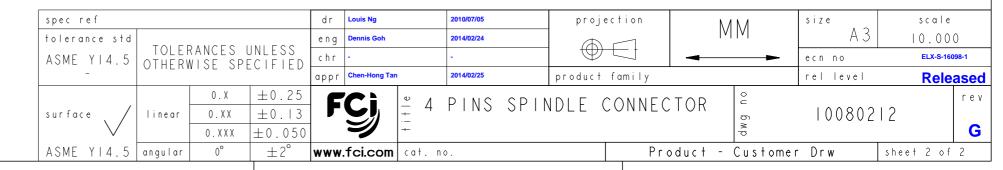


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## CORROSION TEST SEQUENCE

- (A) BEFORE QUALIFICATION: 3 WEEKS, 5EA PER WEEK. (TOTAL Q'TY: 15 EA)
  - I) PARTS MUST SHOW NO SIGN OF CORROSION AFTER BEING EXPOSED TO 60°C ± 2°C AT 80% ± 3% RELATIVE HUMIDITY FOR BELOW PERIOD BY PURPOSE.
  - 2) THE TEMPERATURE GRADIENT FROM 25°C TO 60°C SHALL BE 10°C PER HOUR TO PREVENT CONDENSATION.
  - 3) THE SAMPLES AFTER ENVIRONMENT TEST NEED FURTHER CONDUCT BELOW TESTS FOLLOWING 3.4.1 AND 3.4.3 OF THE SEAGATE SPECIFICATION 649023111
    - 3.1 APPEARANCE TEST (3.4.1 OF 649023111): TEST SHALL USE A MICROSCOPE EXAMINATION WITH A 40X MAGNIFICATION MINIMUM. THE FINISHED PLATING SHALL BE CONTIGUOUS, SMOOTH, UNIFORM AND OF EVEN DENSITY AND COLOR. THERE SHALL BE NO CHEMICAL RESIDUE, BLISTERS, NODULES, PEELING, FLAKING, CRACKS, BREAKS, VOIDS, GAS STREAKS, ORANGE PEELING, OR CORROSION WHEN INSPECTED AT A DISTANCE OF 30 INCHES (ARM'S LENGTH) WITH NORMAL UNAIDED VISION AND ILLUMINATED WITH 100 FOOT-CANDLES MINIMUM. SLIGHT DISCOLORATION AND STAINING RESULTING FROM POST BAKING, HEAT TREATING, OR WATER EVAPORATION SHALL NOT BE CAUSE FOR REJECTION.
    - 3.2 ADHESION TEST (3.4.3 OF 649023111) THE ADHESION SHALL BE SUCH THAT THERE SHALL BE NO SEPARATION FROM THE BASIS METAL AT THE INTERFACE OF THE PLATING WHEN SUBJECTED TO TESTING AS SPECIFIED IN ASTM B 571 OR ASTM D 3359. TESTS SHALL USE A MICROSCOPE EXAMINATION WITH A 10X MAGNIFICATION MINIMUM. FIELD TESTS.
      - 3.2.1 BEND TEST. THE TEST SPECIMENS SHALL BE BENT REPEATEDLY THROUGH AN ANGLE OF 180° ON A DIAMETER EQUAL TO THE THICKNESS OF THE SPECIMEN UNTIL FRACTURE OF THE BASE METAL OCCURS. FOLLOWING FRACTURE OF THE BASIS METAL, IT SHALL NOT BE POSSIBLE TO DETACH ANY APPRECIABLE AREAS OF THE COATING WITH A SHARP INSTRUMENT. THE ADHESION SHALL BE SUCH THAT WHEN EXAMINED AT A MAGNIFICATION OF 4 DIAMETERS, NEITHER THE GOLD NOR ANY ELECTRODEPOSITED UNDERCOAT SHALL SHOW SEPARATION FROM THE BASIS METAL AT THE INTERFACE (OR FROM EACH OTHER AT AN INTERFACE).
      - 3.2.2 CUT TEST. THE ADHESION OF PLATED ARTICLES SHALL BE DETERMINED BY CUTTING THE PLATING FROM THE BASIS METAL AT THE INTERFACE(S) WITH A SHARP INSTRUMENT. THE SPECIMENS SHALL BE VISUALLY EXAMINED AT A MAGNIFICATION OF 4 DIAMETERS TO DETERMINE WHETHER REMOVAL HAS BEEN CAUSED BY CUTTING AWAY OF AN ADHERENT PLATE OR LIFTING OF A NON-ADHERENT PLATE.
      - 3.2.3 BAKE TEST. ADHESION MAY BE DETERMINED BY HEATING THE PARTS IN AN OVEN AT 250°-300°F (121°-149°C) LONG ENOUGH TO BRING THE ITEMS TO TEMPERATURE AND THEN CONTINUED FOR 30 MINUTES. THE TEST SPECIMENS SHALL BE REMOVED, COOLED IN AIR AND EXAMINED AT A MAGNIFICATION OF 4 DIAMETERS FOR EVIDENCE OF FLAKING, PEELING, OR BLISTERING OF THE GOLD DEPOSIT. ANY FLAKING, PEELING, OR BLISTERING CONSTITUTES FAILURE OF THE SPECIMEN.
- (B) AFTER QUALIFICATION: 4 DAYS (96 HOURS), TEST RESULT SHALL BE REPORTED TO CUSTOMER SQE EVERY SECOND WEEK.



Pro/F File - REV C - 2009-06-09

PDS: Rev :G

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STATUS:Released

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