

DESCO INDUSTRIES INCORPORATED

3651 WALNUT AVENUE, CHINO CA 91710
 PHONE (909) 627-8178 | WEB DescoIndustries.com

QUALIFICATION REPORT – ANSI/ESD S20.20

STATGUARD® CONDUCTIVE EPOXY

ANSI/ESD S20.20	Statguard® Test Results	Test Methods
-----------------	-------------------------	--------------

Resistance Point-to-Point (ohms) @ 48 hours conditioning, N=5 specimens, 100V

@ 12% RH, 23°C	< 1.0 x 10 ⁹	See Table 1	ANSI/ESD STM7.1
@ 50% RH, 23°C	< 1.0 x 10 ⁹	See Table 2	ANSI/ESD STM7.1

Testing Equipment (Calibration records and test results are located at our corporate lab (Canton, MA)):

- Environment Chamber with ETS Automatic Humidity Controller (Model 514)
- Desco Electrodes for Surface Resistance (Model 50003)
- Desco Surface Resistance Meter (Model 19291)
- Specimen substrate (if applicable): Vinyl Tile

Test Data:

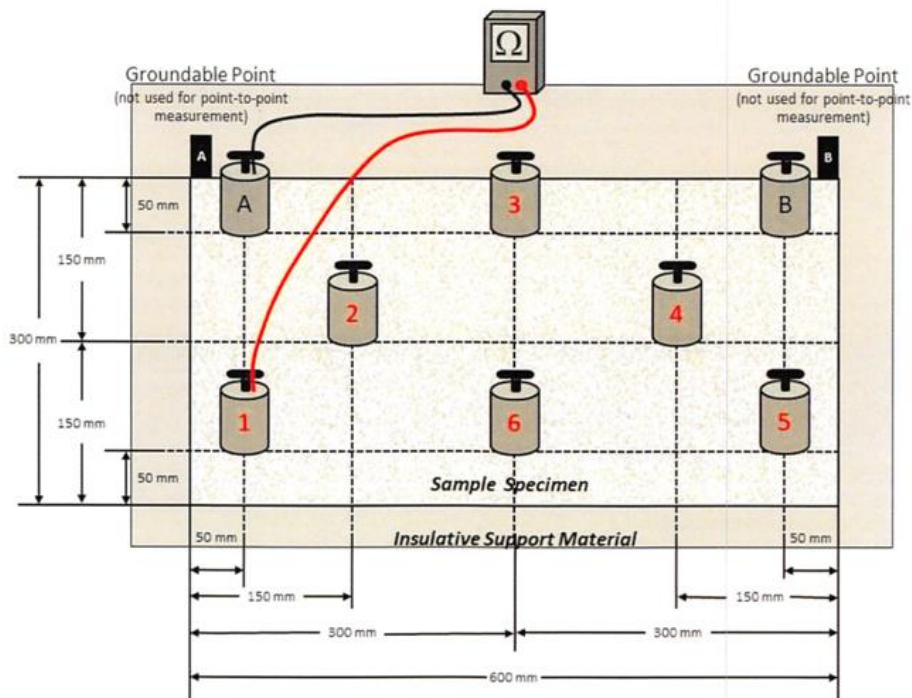
Table 1 - Resistance Point-to-Point at 12%RH, 23°C – Test date:

ANSI/ESD STM7.1 Figure 2	Sample #1	Sample #2	Sample #3	Sample #4	Sample #5
Position A-1	4.36 x 10 ⁴	4.63 x 10 ⁴	3.91 x 10 ⁴	4.02 x 10 ⁴	4.07 x 10 ⁴
Position A-2	4.54 x 10 ⁴	4.48 x 10 ⁴	3.37 x 10 ⁴	3.24 x 10 ⁴	3.78 x 10 ⁴
Position A-3	5.71 x 10 ⁴	5.83 x 10 ⁴	5.48 x 10 ⁴	4.96 x 10 ⁴	5.56 x 10 ⁴
Position A-4	6.72 x 10 ⁴	6.72 x 10 ⁴	6.54 x 10 ⁴	5.63 x 10 ⁴	6.11 x 10 ⁴
Position A-5	8.11 x 10 ⁴	8.22 x 10 ⁴	7.74 x 10 ⁴	7.48 x 10 ⁴	7.74 x 10 ⁴
Position A-6	6.19 x 10 ⁴	6.03 x 10 ⁴	5.56 x 10 ⁴	5.45 x 10 ⁴	5.34 x 10 ⁴
Position B-1	6.99 x 10 ⁴	7.84 x 10 ⁴	7.69 x 10 ⁴	7.53 x 10 ⁴	7.69 x 10 ⁴
Position B-2	6.23 x 10 ⁴	6.44 x 10 ⁴	6.49 x 10 ⁴	5.79 x 10 ⁴	6.19 x 10 ⁴
Position B-3	5.20 x 10 ⁴	5.23 x 10 ⁴	5.52 x 10 ⁴	5.63 x 10 ⁴	5.56 x 10 ⁴
Position B-4	4.13 x 10 ⁴	3.40 x 10 ⁴	4.60 x 10 ⁴	3.99 x 10 ⁴	4.13 x 10 ⁴
Position B-5	5.02 x 10 ⁴	4.57 x 10 ⁴	5.16 x 10 ⁴	4.16 x 10 ⁴	4.86 x 10 ⁴
Position B-6	5.45 x 10 ⁴	5.48 x 10 ⁴	5.34 x 10 ⁴	3.48 x 10 ⁴	5.23 x 10 ⁴
Min.=	4.13 x 10⁴	3.40 x 10⁴	3.37 x 10⁴	3.24 x 10⁴	3.78 x 10⁴
Max. =	8.11 x 10⁴	8.22 x 10⁴	7.74 x 10⁴	7.53 x 10⁴	7.74 x 10⁴

Table 2 - Resistance Point-to-Point at 50%RH, 23°C, Test date:

ANSI/ESD STM7.1 Figure 2	Sample #1	Sample #2	Sample #3	Sample #4	Sample #5
Position A-1	4.05×10^4	1.20×10^5	3.97×10^4	3.30×10^4	4.30×10^4
Position A-2	4.92×10^4	1.35×10^5	3.91×10^4	3.15×10^4	3.42×10^4
Position A-3	5.67×10^4	9.29×10^4	6.15×10^4	4.73×10^4	4.36×10^4
Position A-4	7.84×10^4	1.01×10^5	7.14×10^4	5.52×10^4	4.66×10^4
Position A-5	1.08×10^5	1.50×10^5	8.28×10^4	6.81×10^4	6.41×10^4
Position A-6	7.63×10^4	1.65×10^5	5.63×10^4	4.99×10^4	4.66×10^4
Position B-1	6.19×10^4	1.13×10^5	9.04×10^4	7.33×10^4	7.33×10^4
Position B-2	5.56×10^4	8.86×10^4	7.95×10^4	5.63×10^4	5.83×10^4
Position B-3	4.89×10^4	7.18×10^4	7.74×10^4	5.30×10^4	5.09×10^4
Position B-4	4.36×10^4	5.56×10^4	6.32×10^4	3.15×10^4	3.57×10^4
Position B-5	5.20×10^4	5.62×10^4	6.90×10^4	3.81×10^4	4.66×10^4
Position B-6	5.67×10^4	6.94×10^4	7.23×10^4	4.57×10^4	4.89×10^4
Min.=	4.05×10^4	5.56×10^4	3.91×10^4	3.15×10^4	3.42×10^4
Max. =	1.08×10^5	1.65×10^5	9.04×10^4	7.33×10^4	7.33×10^4

References:



ANSI/ESD STM7.1 – Figure 2: Resistance Point-to-Point Measurement

Statguard® Conductive Epoxy is available from these Desco Industries brands:

Desco Industries Inc Brands	Item#
Statguard Flooring	46057
Desco Europe	210225
Desco Asia	46057