

DESCO INDUSTRIES INCORPORATED

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QUALIFICATION REPORT – ANSI/ESD S20.20

DESCO STATSHIELD® SMOCKS – LAB COATS WITH CUFFS

ANSI/ESD S20.20	DESCO Test Results	Test Methods
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Rpp (Resistance Point-to-Point) (ohms), 48-72 hours, 10V/100V, N=3 specimens

@ 12%RH, 23°C	< 1.0 x 10 ⁹	See Table 1	ANSI/ESD STM2.1
@ 50%RH, 23°C	< 1.0 x 10 ⁹	See Table 1	ANSI/ESD STM2.1

Rppg (Resistance Point-to-Groundable-Point) (ohms), 48-72 hours, 10V/100V, N=3 specimens

@ 12%RH, 23°C	< 1.0 x 10 ⁹	See Table 1	ANSI/ESD STM2.1
@ 50%RH, 23°C	< 1.0 x 10 ⁹	See Table 1	ANSI/ESD STM2.1

**System – BCP to Gp (ohms), 48-72 hours, 10V/100V, N=3 specimens
 (End users should verify system performance in their unique settings.)**

@ 12%RH, 23°C	< 3.5 x 10 ⁷	See Table 1	ANSI/ESD STM2.1
@ 50%RH, 23°C	< 3.5 x 10 ⁷	See Table 1 For typical values	ANSI/ESD STM2.1

**System – Person to Gp (ohms), 100V, N=3 specimens
 (End users should verify system performance in their unique settings.)**

@ 62%RH, 23°C	< 3.5 x 10 ⁷	See Table 1 For typical values	ANSI/ESD STM2.1
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Test Equipment (Calibration records and test results are located at our corporate lab (Sanford, NC)):

For Test Method ANSI/ESD STM2.1:

- ETS Controlled Environment Chamber (Model 5532)
- SCS Surface Resistance Meter (Model 770761)
- DESCO Electrode, 5 lbs. (Model 50784)

Test Conditions:

Environment	Moderate	Low
Humidity	50%RH	12%RH
Temperature	23°C	23°C

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Test Data:

Table 1 – Resistance results at Moderate and Low test conditions, 48 – 72 pre-conditioning hours

Test Type	Test Location	Sample#1		Sample#2		Sample#3	
		Moderate	Low	Moderate	Low	Moderate	Low
Rpp	LS to LFP	4.67 x 10 ⁵	3.14 x 10 ⁵	2.85 x 10 ⁵	4.74 x 10 ⁵	5.70 x 10 ⁵	4.67 x 10 ⁵
	LS to RFP	5.11 x 10 ⁵	3.78 x 10 ⁵	3.41 x 10 ⁵	2.78 x 10 ⁵	6.41 x 10 ⁵	7.76 x 10 ⁵
	LS to LBP	4.55 x 10 ⁵	2.70 x 10 ⁵	4.55 x 10 ⁵	4.16 x 10 ⁵	5.51 x 10 ⁵	7.10 x 10 ⁵
	LS to RBP	4.61 x 10 ⁵	3.83 x 10 ⁵	2.89 x 10 ⁵	4.33 x 10 ⁵	6.11 x 10 ⁵	7.00 x 10 ⁵
	LS to RS	4.55 x 10 ⁵	3.94 x 10 ⁵	3.73 x 10 ⁵	2.80 x 10 ⁵	3.36 x 10 ⁵	6.86 x 10 ⁵
	BCP to BCP	5.01 x 10 ⁵	3.65 x 10 ⁵	4.55 x 10 ⁵	4.02 x 10 ⁵	3.86 x 10 ⁵	4.77 x 10 ⁵
Rppg	LS to Gp	1.48 x 10 ⁶	1.07 x 10 ⁶	1.40 x 10 ⁶	1.43 x 10 ⁶	1.26 x 10 ⁶	1.67 x 10 ⁶
	LFP to Gp	1.25 x 10 ⁶	1.12 x 10 ⁶	1.20 x 10 ⁶	1.21 x 10 ⁶	1.29 x 10 ⁶	1.43 x 10 ⁶
	RFP to Gp	1.24 x 10 ⁶	1.15 x 10 ⁶	1.13 x 10 ⁶	1.16 x 10 ⁶	1.36 x 10 ⁶	1.28 x 10 ⁶
	LBP to Gp	1.25 x 10 ⁶	1.12 x 10 ⁶	1.18 x 10 ⁶	1.17 x 10 ⁶	1.34 x 10 ⁶	1.41 x 10 ⁶
	RBP to Gp	1.21 x 10 ⁶	1.15 x 10 ⁶	1.14 x 10 ⁶	1.14 x 10 ⁶	1.27 x 10 ⁶	1.28 x 10 ⁶
	RS to Gp	1.15 x 10 ⁶	1.15 x 10 ⁶	1.06 x 10 ⁶	1.05 x 10 ⁶	1.12 x 10 ⁶	1.12 x 10 ⁶
	BCP to Gp	1.50 x 10 ⁶	1.09 x 10 ⁶	1.03 x 10 ⁶	1.04 x 10 ⁶	1.06 x 10 ⁶	1.04 x 10 ⁶
System	BCP to Gp*	6.19 x 10 ⁵	3.18 x 10 ⁵	6.23 x 10 ⁵	4.58 x 10 ⁵	1.42 x 10 ⁶	3.75 x 10 ⁵
	Person to Gtp**	1.22 x 10 ⁶		1.15 x 10 ⁶		1.21 x 10 ⁶	

** Test date: Low environment: 2023-07-14. Moderate environment: 2023-07-21

*** Test date: 2023-06-27

Reference:

Test Location		Test Type	
LS	Left Sleeve	Rpp	Resistance point-to-point
RS	Right Sleeve	Rppg	Resistance point-to-groundable point
LFP	Left Front Panel	System	Resistance in combination with a person
RFP	Right Front Panel		
LBP	Left Back Panel		
RBP	Right Back Panel		
BCP	Body Contact Point		
Gp	Garment Groundable Point		
Gtp	Ground Termination Point		