

DESCO INDUSTRIES INCORPORATED

QUALIFICATION REPORT – ANSI/ESD S20.20

DESCO STATSHIELD® SMOCKS – JACKETS 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

Rpgp (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	2.78 x 10 ⁵	1.71 x 10 ⁵	7.40 x 10 ⁵	3.25 x 10 ⁵	9.66 x 10 ⁵	7.40 x 10 ⁵
	LS to RFP	3.99 x 10 ⁵	3.39 x 10 ⁵	1.32 x 10 ⁶	7.45 x 10 ⁵	1.29 x 10 ⁶	8.72 x 10 ⁵
	LS to LBP	3.83 x 10 ⁵	2.83 x 10 ⁵	9.02 x 10 ⁵	5.43 x 10 ⁵	8.72 x 10 ⁵	7.10 x 10 ⁵
	LS to RBP	4.36 x 10 ⁵	3.10 x 10 ⁵	1.28 x 10 ⁶	9.47 x 10 ⁵	1.36 x 10 ⁶	7.98 x 10 ⁵
	LS to RS	4.30 x 10 ⁵	3.10 x 10 ⁵	1.39 x 10 ⁶	7.40 x 10 ⁵	1.15 x 10 ⁶	8.78 x 10 ⁵
	BCP to BCP	4.58 x 10 ⁵	3.46 x 10 ⁵	8.43 x 10 ⁵	6.67 x 10 ⁵	9.15 x 10 ⁵	7.50 x 10 ⁵
Rpgp	LS to Gp	1.55 x 10 ⁶	1.19 x 10 ⁶	2.23 x 10 ⁶	1.12 x 10 ⁶	2.01 x 10 ⁶	1.32 x 10 ⁶
	LFP to Gp	1.33 x 10 ⁶	1.09 x 10 ⁶	2.26 x 10 ⁶	1.30 x 10 ⁶	1.97 x 10 ⁶	1.42 x 10 ⁶
	RFP to Gp	1.23 x 10 ⁶	9.80 x 10 ⁵	1.49 x 10 ⁶	1.58 x 10 ⁶	1.41 x 10 ⁶	1.16 x 10 ⁶
	LBP to Gp	1.29 x 10 ⁶	1.05 x 10 ⁶	2.76 x 10 ⁶	1.35 x 10 ⁶	2.05 x 10 ⁶	1.36 x 10 ⁶
	RBP to Gp	1.24 x 10 ⁶	9.90 x 10 ⁵	1.65 x 10 ⁶	1.68 x 10 ⁶	1.77 x 10 ⁶	1.16 x 10 ⁶
	RS to Gp	1.21 x 10 ⁶	9.86 x 10 ⁵	1.35 x 10 ⁶	1.58 x 10 ⁶	1.32 x 10 ⁶	1.03 x 10 ⁶
	BCP to Gp	1.58 x 10 ⁶	1.15 x 10 ⁶	2.65 x 10 ⁶	1.60 x 10 ⁶	1.87 x 10 ⁶	1.49 x 10 ⁶
System	BCP to Gp*	1.50 x 10 ⁶	1.32 x 10 ⁶	1.58 x 10 ⁶	1.62 x 10 ⁶	1.40 x 10 ⁶	1.05 x 10 ⁶
	Person to Gtp**	1.58 x 10 ⁶		1.60 x 10 ⁶		1.41 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	Rpgp	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		