

# DESCO INDUSTRIES INCORPORATED

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## QUALIFICATION REPORT – ANSI/ESD S20.20

### DESCO STATFREE® VpCI-125 HP ESD BLUE

ANSI/ESD S20.20	DESCO Test Results	Test Methods
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**Surface Resistance (ohms) @ 12% RH, 23°C, 48-72 hours conditioning, N=10 specimens, 100V**

Interior (Sealing Surface)	$\geq 1.0 \times 10^4$ to $< 1.0 \times 10^{11}$	See Table 1	ANSI/ESD STM11.11
Exterior	$\geq 1.0 \times 10^4$ to $< 1.0 \times 10^{11}$	See Table 1	ANSI/ESD STM11.11

**Surface Resistance (ohms) @ 50% RH, 23°C, 48-72 hours conditioning, N=6 specimens, 100V**

Interior (Sealing Surface)	$\geq 1.0 \times 10^4$ to $< 1.0 \times 10^{11}$	See Table 1	ANSI/ESD STM11.11
Exterior	$\geq 1.0 \times 10^4$ to $< 1.0 \times 10^{11}$	See Table 1	ANSI/ESD STM11.11

**Test Equipment (Calibration records and test results are located at corporate lab (Sanford, NC)):**

For Test Method ANSI/ESD STM11.11:

- ETS Controlled Environment Chamber (Model 5532)
- SCS Surface Resistance Meter (Model 770761)
- SCS Concentric Ring Probe (Model 770007)

**Table 1: Test Results:**

Specimen	Surface Resistance (ohms) 48-72 hours conditioning	
	@ 23°C, 12%RH	@ 23°C, 50%RH
1	$3.77 \times 10^9$	$1.56 \times 10^9$
2	$3.68 \times 10^9$	$1.93 \times 10^9$
3	$7.75 \times 10^9$	$1.77 \times 10^9$
4	$8.01 \times 10^9$	$1.63 \times 10^9$
5	$1.04 \times 10^{10}$	$1.64 \times 10^9$
6	$8.67 \times 10^9$	$1.56 \times 10^9$
<b>Min Ind=</b>	$3.68 \times 10^9$	$1.56 \times 10^9$
<b>Max Ind=</b>	$1.04 \times 10^{10}$	$1.93 \times 10^9$
<b>Mean of Ind=</b>	$7.05 \times 10^9$	$1.68 \times 10^9$
<b>Std Dev Ind =</b>	$2.73 \times 10^9$	$1.44 \times 10^8$

**Item# covered by this report:** 14170, 14171, 14172, 14173