

# DESCO INDUSTRIES INCORPORATED

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## QUALIFICATION REPORT – ANSI/ESD S20.20 DESCO 07473 STATFREE® SHOP TRAVELER, CLEAR

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 the 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:**

**Surface Resistance (ohms), 48-72 hours of conditioning**

Specimen	Testing at 12% RH, 23°C		Testing at 50% RH, 23°C	
	Interior	Exterior	Interior	Exterior
1	$5.97 \times 10^9$	$1.30 \times 10^{10}$	$1.10 \times 10^9$	$7.30 \times 10^8$
2	$2.24 \times 10^{10}$	$1.87 \times 10^{10}$	$1.21 \times 10^9$	$7.15 \times 10^8$
3	$2.48 \times 10^{10}$	$2.09 \times 10^{10}$	$1.62 \times 10^9$	$7.25 \times 10^8$
4	$3.07 \times 10^{10}$	$2.12 \times 10^{10}$	$1.35 \times 10^9$	$7.20 \times 10^8$
5	$2.57 \times 10^{10}$	$2.55 \times 10^{10}$	$8.72 \times 10^8$	$7.11 \times 10^8$
6	$2.60 \times 10^{10}$	$2.24 \times 10^{10}$	$7.11 \times 10^8$	$5.37 \times 10^8$
7	$2.43 \times 10^{10}$	$2.41 \times 10^{10}$	$9.47 \times 10^8$	$6.73 \times 10^8$
8	$3.52 \times 10^{10}$	$2.24 \times 10^{10}$	$9.28 \times 10^8$	$6.20 \times 10^8$
9	$2.18 \times 10^{10}$	$2.25 \times 10^{10}$	$7.61 \times 10^8$	$5.63 \times 10^8$
10	$2.18 \times 10^{10}$	$2.60 \times 10^{10}$	$5.48 \times 10^8$	$5.59 \times 10^8$
<b>Min Ind=</b>	$5.97 \times 10^9$	$2.17 \times 10^{10}$	$5.48 \times 10^8$	$5.37 \times 10^8$
<b>Max Ind=</b>	$3.52 \times 10^{10}$	$1.30 \times 10^{10}$	$1.62 \times 10^9$	$7.30 \times 10^8$
<b>Mean of Ind=</b>	$2.39 \times 10^{10}$	$2.17 \times 10^{10}$	$1.00 \times 10^9$	$6.55 \times 10^8$
<b>Std Dev Ind =</b>	$7.57 \times 10^9$	$3.74 \times 10^9$	$3.21 \times 10^8$	$7.79 \times 10^7$