



CORSTAT™ SPECIFICATIONS

1.0 Scope

This specification describes the electrical, chemical and mechanical characteristics of CORSTAT™ ANSI/ESD-S541 and ANSI/ESD S20.20 compliant.

2.0 Electrical

- 2.1 Surface Resistance
(per ANSI/ESD STM11.11)
 - 2.1.1 Buried Shielding-layer Ohms 10³ -10⁴ ohms
 - 2.1.2 Outer Dissipative-layer Ohms 10⁴ -10⁶ ohms
- 2.2 Electrostatic Decay Rate
(Per EIA-541) Avg. 0.01 sec.
- 2.3 ESD Shielding - Capacitive Probe Test Avg. 16.94nJ
- 2.4 Triboelectric Charge Generation - low

3.0 Chemical

- 3.1 Corrosivity
 - 3.1.1 Reducible Sulphur .00035%
(.0008% nontarnishing to silver, solder and copper per TAPPI-406)
 - 3.1.2 Amines None
 - 3.1.3 Galvanic Reaction None

4.0 Mechanical

- 4.1 Kraft Paper Stock Base Fiberboard
- 4.2 Rub Resistance, Shielding Layer Excellent
(Per Sutherland Ink Rub Test)
- 4.3 Shelf Life 10 Years
- 4.4 Cracking Corstat® will not lose continuity above 10⁵ ohms/sq. when flexed at score line 10 times in a 180° motion.
- 4.5 Printability Excellent
- 4.6 Humidity Dependence No effect on electrical properties
- 4.7 Identification
 - 4.7.1 ESD Shielding Indication
 - 4.7.2 Date of Manufacturing
 - 4.7.3 Recyclable

Warranty

Conductive Containers, Inc. guarantees CORSTAT™ to be free from defects in material and workmanship. Specifications and technical information presented are based on testing methods believed to produce accurate results. Conductive Containers, Inc.'s only obligation will be to replace or repair any CORSTAT™ products proved to be defective at time of shipment. Conductive Containers, Inc. will not be liable for any injury, loss or damage direct or consequential, arising out of the use or the inability to use the products. Before using, user shall determine the suitability of the product for the intended use, and user shall assume risk and liability in connection herewith.



ANTI-STATIC POLYURETHANE 4300 SERIES

1.0 Scope

This specification describes the electrical, physical and mechanical characteristics of Anti-Static Polyurethane 4300 Series Foam.

2.0 Electrical

----- 2.1 Static Decay ----- (FFMS 101C) Method 4046	2 Sec. Max
----- 2.2 Surface Resistivity ----- (ASTM D-257)	10 ¹¹ ohms/sq.

3.0 Mechanical

----- 3.1 Compression Set @50% comp: ----- (ASTM D-3574-86)	10% max.
----- 3.2 Tensile Strength ----- (ASTM D-3574-86)	12 psi. minimum
----- 3.3 Elongation ----- (ASTM-D3574-86)	160% minimum
----- 3.4 Density ----- (ASTM D-3574-86)	1.25 +/- 1 lbs./cu.ft

4.0 Physical

----- 4.1 Color	Pink
----- 4.2 Flammability (CAL.117) ----- (MVSS 302)	not rated pass/not rated not rated pass/not rated
----- 4.3 Tear Resistance ----- (ASTM D-3574-86)	2 lbs./lin.inch minimum
----- 4.4 Indent Force Deflection @ 25% Deflection: ----- (ASTM D-3574-86)	35 +/- 3 lbs./50 sq. in.
----- 4.5 CFC FREE	

The specification values listed above are for general guidance only. Each user must independently determine the suitability of CCI foam for its intended use.

WARNING: URETHANE FOAM IS FLAMMABLE!
urethane Foam should not be exposed to open flame or other ignition sources.
urethanes burn rapidly with great heat and release gases which are extremely hazardous.

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LD32CN Conductive Crosslink Foam

PROPERTY	TEST METHOD	UNITS	LD32CN
Density:	ASTM D3575-91 Suffix: W (Method A)	pcf	2.0
Volume Resistance:	ASTM D991-89	ohms.cms	5x10 ³
Corrosivity:	TS10218 (UK MOD) Conductive Sh.Spec.	Contact Vapor	PASS PASS
Total Chlorine:			
Compressive Strength:	ASTM D3575-91 Suffix: D	psi	
@ 10%			9
@ 25%			11
@40%			15
@50%			20
Compression Set:	ASTM D3575-91 Suffix: B		
22 hrs@50% 73° F. 2 hr recovery		% set	17
22 hrs@50% 73° F. 2 hr recovery		% set	14
Tensile Strength:	ASTM D3575-91 Suffix: G (Cell/Cell)	%	54
Elongation at Break:		%	55
Tear Resistance:	ASTM D3575-91 Suffix: G (Cell/Cell)	lb./in	10
Recommended:	Internal		
Operating Temperature Range*		deg..F min. deg. F max	-95 +200

*Surface resistance, ohms, max by ASTM method D257-66 entitled "D-C Resistance or Conductance of Insulating Material"
The specification values listed above are for general guidance only. Each user must independently determine the suitability of CCI sheet for its intended use.

WARNING: URETHANE FOAM IS FLAMMABLE!
 urethane Foam should not be exposed to open flame or other ignition sources.
 urethanes burn rapidly with great heat and release gases which are extremely hazardous.