

Conduct-O-Elastomer

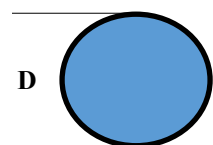
ECS3 Series

ECS has developed a line of conductive silicone elastomers that are designed to meet the requirements outlined for the MIL-G-83528 specification. Our conductive materials are used to produce shielding gaskets for Military, Aerospace, electronics, and communications applications. Our range of conductive silicones has expanded to include materials that are designed to balance requirements for electrical conductivity and cost performance for the commercial sector.



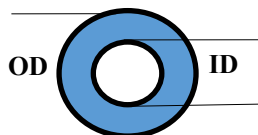
EXTRUSION STANDARD PROFILES

SOLID ROUND



D	PART NO.	D	PART NO.	D	PART NO.
.040	ECS3-10	.103	ECS3-16	.150	ECS3-21
.053	ECS3-11	.112	ECS3-17	.160	ECS3-22
.062	ECS3-12	.119	ECS3-17	.188	ECS3-23
.070	ECS3-13	.125	ECS3-18	.216	ECS3-24
.080	ECS3-14	.130	ECS3-19	.250	ECS3-25
.093	ECS3-15	.139	ECS3-20		

HOLLOW ROUND



O.D. (in.)	I.D. (in.)	PART NO.
.070	.025	ECS3-26
.093	.035	ECS3-27
.103	.040	ECS3-28
.125	.045	ECS3-29
.125	.062	ECS3-30
.156	.050	ECS3-31
.177	.079	ECS3-32
.250	.125	ECS3-33
.312	.192	ECS3-34
.375	.250	ECS3-35
.437	.250	ECS3-36

When ordering, please use full product number & material requesting i.e.;

ECS3-10-2000 - 2000 = Nickel Graphite

Please see Material Selection page on the last page (7) of Conduct-O-Elastomer section

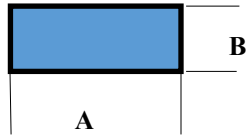


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Conduct-O-Elastomer Extrusion Profiles

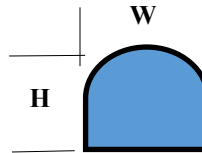
ECS3 Series

RECTANGULAR SOLID



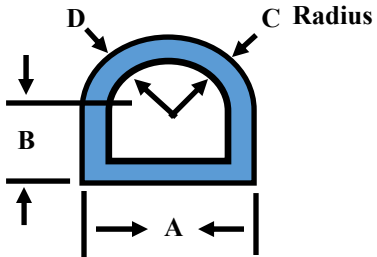
A	B	PART NO.
.032	.032	ECS3-36
.060	.080	ECS3-37
.063	.042	ECS3-38
.095	.062	ECS3-39
.120	.075	ECS3-40
.125	.062	ECS3-41
.156	.062	ECS3-42
.250	.062	ECS3-43
.500	.075	ECS3-44
.500	.125	ECS3-45
.500	.188	ECS3-46
.750	.062	ECS3-47
.880	.062	ECS3-48
1.000	.250	ECS3-49
1.180	.062	ECS3-50

SOLID D SHAPE



H	W	PART NO.
.064	.055	ECS3-51
.068	.062	ECS3-52
.078	.094	ECS3-53
.089	.078	ECS3-54
.094	.094	ECS3-55
.100	.062	ECS3-56
.110	.150	ECS3-57
.131	.122	ECS3-58
.136	.124	ECS3-59
.156	.118	ECS3-60
.156	.156	ECS3-61
.175	.178	ECS3-62
.188	.188	ECS3-63
.250	.250	ECS3-64

HOLLOW D SHAPE



A	B	C	D	PART NO.
.156	.045	.078	.045	ECS3-65
.156	.078	.078	.045	ECS3-66
.187	.093	.093	.050	ECS3-67
.250	.125	.125	.065	ECS3-68
.312	.156	.156	.062	ECS3-69
.487	.244	.244	.080	ECS3-70



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Conduct-O-Elastomer Molded Sheet Part Numbers

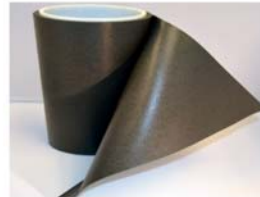
ECS3 Series

For ordering convenience please see our full product part number list below. All part numbers are individually numbered to designate material type, durometer, thickness, and mold dimension. Please see the example of our part number system below or simply call direct for assistance.

Keep in mind addition of PSA and custom mold size is available by request as always.
Continuous Roll Stock is also available up to 15" WD



Sheet Thickness & Dimensions



ECS Material

ECS3- _____ ↓ ↓ _____

15 X 20 MOLD DIMENSION	*** 70 SHORE A CARBON BLACK FILLED SILICONE ***
ECS3-0101520-1000	70 SHORE A CARBON BLACK FILLED SHEET .010" THICK
ECS3-0151520-1000	70 SHORE A CARBON BLACK FILLED SHEET .015" THICK
ECS3-0201520-1000	70 SHORE A CARBON BLACK FILLED SHEET .020" THICK
ECS3-0321520-1000	70 SHORE A CARBON BLACK FILLED SHEET .032" THICK
ECS3-0401520-1000	70 SHORE A CARBON BLACK FILLED SHEET .040" THICK
ECS3-0621520-1000	70 SHORE A CARBON BLACK FILLED SHEET .062" THICK
ECS3-0931520-1000	70 SHORE A CARBON BLACK FILLED SHEET .093" THICK
ECS3-1251520-1000	70 SHORE A CARBON BLACK FILLED SHEET .125" THICK
ECS3-1601520-1000	70 SHORE A CARBON BLACK FILLED SHEET .160" THICK
ECS31881520-1000	70 SHORE A CARBON BLACK FILLED SHEET .188" THICK
ECS3-2501520-1000	70 SHORE A CARBON BLACK FILLED SHEET .250" THICK
15 X 20 MOLD DIMENSION	*** 65 SHORE A NICKEL COATED GRAPHITE SILICONE ***
ECS3-0101520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .010" THICK
ECS3-0151520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .015" THICK
ECS3-0201520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .020" THICK
ECS3-0321520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .032" THICK
ECS3-0401520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .040" THICK
ECS3-0621520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .062" THICK
ECS3-0931520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .093" THICK
ECS3-1251520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .125" THICK
ECS3-1601520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .160" THICK
ECS3-1881520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .188" THICK
ECS3-2501520-2000	65 SHORE A NICKEL GRAPHITE FILLED SHEET .250" THICK



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Conduct-O-Elastomer Sheet Sizes

ECS3 Series

15 X 20 MOLD DIMENSION	* 60 SHORE A NICKEL COATED GRAPHITE FLUROSILICONE *
ECS3-0101520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .010" THICK
ECS3-0151520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .015" THICK
ECS3-0201520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .020" THICK
ECS3-0321520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .032" THICK
ECS3-0401520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .040" THICK
ECS3-0621520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .062" THICK
ECS3-0931520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .093" THICK
ECS3-1251520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .125" THICK
ECS3-1601520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .160" THICK
ECS3-1881520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .188" THICK
ECS3-2501520-2000F	60 SHORE A NICKEL GRAPHITE FILLED FLUROSILICONE SHEET .250" THICK



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Conduct-O-Elastomer Sheet Sizes

ECS3 Series

15 X 20 MOLD DIMENSION	FULL CERTIFICATION TO MIL-DTL-83528C TYPE B
ECS3-0101520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .010" THICK
ECS3-0151520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .015" THICK
ECS3-0201520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .020" THICK
ECS3-0321520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .032" THICK
ECS3-0401520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .040" THICK
ECS3-0621520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .062" THICK
ECS3-0931520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .093" THICK
ECS3-1251520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .125" THICK
ECS3-1601520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .160" THICK
ECS3-1881520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .188" THICK
ECS3-2501520-5000	65 SHORE A SILVER ALUMINUM FILLED DARK BLUE SHEET .250" THICK

15 X 20 MOLD DIMENSION	70 SHORE A SILVER ALUMINUM FILLED FLUOROSILICONE
ECS3-0101520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .010" THICK
ECS3-0151520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .015" THICK
ECS3-0201520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .020" THICK
ECS3-0321520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .032" THICK
ECS3-0401520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .040" THICK
ECS3-0621520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .062" THICK
ECS3-0931520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .093" THICK
ECS3-1251520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .125" THICK
ECS3-1601520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .160" THICK
ECS3-1881520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .188" THICK
ECS3-2501520-5000F	70 SHORE A SILVER ALUMINUM FILLED DARK BLUE FLUOROSILICONE SHEET .250" THICK



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Conduct-O-Elastomer Sheet Sizes

ECS3 Series

15 X 20 MOLD DIMENSION	*** 65 SHORE A SILVER GLASS FILLED SILICONE ***
ECS3-0101520-6000	65 SHORE A SILVER GLASS FILLED SHEET .010" THICK
ECS3-0151520-6000	65 SHORE A SILVER GLASS FILLED SHEET .015" THICK
ECS3-0201520-6000	65 SHORE A SILVER GLASS FILLED SHEET .020" THICK
ECS3-0321520-6000	65 SHORE A SILVER GLASS FILLED SHEET .032" THICK
ECS3-0401520-6000	65 SHORE A SILVER GLASS FILLED SHEET .040" THICK
ECS3-0621520-6000	65 SHORE A SILVER GLASS FILLED SHEET .062" THICK
ECS3-0931520-6000	65 SHORE A SILVER GLASS FILLED SHEET .093" THICK
ECS3-1251520-6000	65 SHORE A SILVER GLASS FILLED SHEET .160" THICK
ECS3-1881520-6000	65 SHORE A SILVER GLASS FILLED SHEET .188" THICK

15 X 20 MOLD DIMENSION	*** 65 SHORE A SILVER COPPER FILLED SILICONE ***
ECS3-0101520-8000	65 SHORE A SILVER COPPER FILLED SHEET .010" THICK
ECS3-0151520-8000	65 SHORE A SILVER COPPER FILLED SHEET .015" THICK
ECS3-0201520-8000	65 SHORE A SILVER COPPER FILLED SHEET .020" THICK
ECS3-0321520-8000	65 SHORE A SILVER COPPER FILLED SHEET .032" THICK
ECS3-0401520-8000	65 SHORE A SILVER COPPER FILLED SHEET .040" THICK
ECS3-0621520-8000	65 SHORE A SILVER COPPER FILLED SHEET .062" THICK
ECS3-0931520-8000	65 SHORE A SILVER COPPER FILLED SHEET .093" THICK
ECS3-1251520-8000	65 SHORE A SILVER COPPER FILLED SHEET .125" THICK
ECS3-1601520-8000	65 SHORE A SILVER COPPER FILLED SHEET .160" THICK
ECS3-1881520-8000	65 SHORE A SILVER COPPER FILLED SHEET .188" THICK



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Conduct-O-Elastomer Specifications

ECS3 Series

	Carbon 1000	Nickel Graphite 2000	Nickel Graphite 2000F	Silver Aluminum 5000	Silver Aluminum 5000F	Silver Glass 6000	Silver Copper 8000
Elastomer	Silicone	Silicone	Fluoro- silicone	Silicone	Fluoro- silicone	Sili- cone	Silicone
Color	Black	Dark Gray	Dark Gray	Blue*	Blue*	Tan	Tan
Specific Gravity, gm/cc	1.2	1.95	1.95	2.0	2.0	1.9	3.5
Durometer Shore A	70	30-70	65	65	70	65	65
Volume Resistivity, Ohm- cm	7.0	0.10	0.10	0.008	0.012	0.006	0.004
Operating Temperature: Min C	-55°	-55°	-55°	-55°	-55°	-55°	-55°
Operating Temperature: Max C	200°	150°	150°	160°	160°	160°	125°
Compression Deflection % Min.	3.5	3.5	3.0	3.5	3.5	3.5	3.5
Tensile Strength, P.S.I.	650	150	150	200	180	200	200
Elongation % Min.	100%	100%	100%	100%	60%	100%	100%
Elongation % Max.	-	-	-	300%	260%	300%	300%
Compression Set %	40	35	25	32	30	30	32
Tear Strength lb./in.	40	40	35	30	35	30	25
Shielding Effectiveness (100 Mhz)	80	100	100	120	120	100	120
Shielding Effectiveness (500 Mhz)	80	100	100	120	120	100	120
Shielding Effectiveness (2 Ghz)	60	100	100	115	115	90	120
Shielding Effectiveness (10 Ghz)	50	100	100	115	115	90	120



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