

HIGH  
QUALITY  
BRUSH  
PRODUCTS

# CATALOG



## *Industrial Applications*

For over 20 years, Sealeze has manufactured custom and standard brush products that meet or exceed our customers' expectations for quality, service and fast, as promised, delivery.



**SEALEZE**®

*A Unit of Jason Incorporated*

**1.800.787.7325**

[www.sealeze.com](http://www.sealeze.com) | [industrial@sealeze.com](mailto:industrial@sealeze.com)



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**S**ealeze provides brush-based solutions for industrial applications ranging from shielding machine tools to guides on conveyor systems. Our strip brush is available in a broad range of sizes, with a variety of filament types, channels and holders to meet a range of application requirements. From food and drug processing to wire descaling, we manufacture brush to meet your specifications. Our in-house engineering team and design services are available to help you identify the exact requirements for your application. We can work with your engineers and CAD drawings to provide custom-formed inverted and external coils, external and inverted spirals, cups, arcs and custom shapes and trim lengths.



At Sealeze, we constantly strive to provide high-quality products and services, continuously monitoring and improving our processes and performance to make sure we meet or exceed our customers expectations. Our ISO certification ensures that we relentlessly review our processes and activities to maintain the quality our customers expect.

Please visit our web site at [www.sealeze.com](http://www.sealeze.com) for more information on the products contained in this catalog, including downloadable worksheets, test reports and certifications.

## SELECTING THE RIGHT BRUSH

Several factors need to be considered to select the right brush for an application. When these factors are properly considered, selecting the right size brush with the best filament and channel material for your application is ensured. Factors to consider include:

**Application Type:** shielding, closing gaps, static dissipation, etc.

**Environment:** wet/dry, acid/alkaline/solvents, hot/cold, direct sunlight, EMI or static present

**Operation Cycles:** heavy or light duty

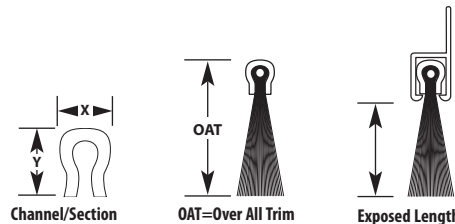
**Physical Properties:** soft or aggressive filament, synthetic/natural/metal filament, filament length, etc.

**Special Materials:** FDA-approved, etc.

### Channel Section Size

**Note:** All measurements shown in inches.

Section Size	(X) Width	(Y) Height
A	0.095	0.110
B	0.150	0.152
C	0.180	0.199
D	0.240	0.256
F	0.313	0.313
G	0.350	0.370
K	0.500	0.500



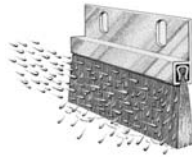
PROPERTIES	Nylon 6	Nylon 6.6	Nylon 6.12	Polypropylene	Polyester	Synthetic for Elevated Temp	Horse Hair	Tampico (plant)
Shape	Level or Crimped	Level or Crimped	Level or Crimped	Level or Crimped	Level or Crimped	Level	Level	Level
Flex Life	E	E	E	E	G	E	E	F
Springiness/Flicking	E	E	E	G	E	E	F	G
Bend Recovery	E	E	E	G	E	E	F	P
Resistance to Set	G	G	G	F	G	G	G	F
Abrasion Resistance	E	E	E	F	G	E	F	P
Water Absorption	9%	9%	3%	<0.2%	<0.5%	9%	—	—
Stiffness in Water	F	F	G	E	E	G	F	P
ENVIRONMENT								
Working Temperature (degrees F) (MAX)	200-230°F	200-230°F	200-230°F	180°F	200-230°F	250-300°F	na	na
Hot Water	G	G	G	E	E	G	P	E
Melting Point (degrees F)	410°F	500°F	415°F	320°F	430°F	495°F	—	—
Acidic	G	G	G	E	G	G	P	E
Alkaline	E	E	E	E	G	material dependent	—	—
Petroleum Distillates	E	E	E	G	G	E	—	—

E = Excellent G = Good F = Fair P = Poor

# TYPICAL APPLICATIONS

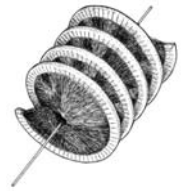
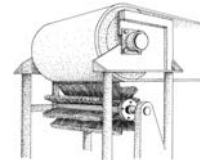
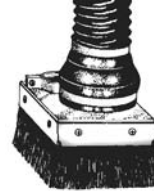
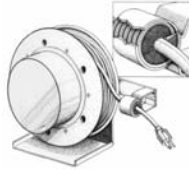
## Shielding against flying debris, dust, air, spray, light and sound

- Paint and powder booths
- Machine tools
- Woodworking machinery
- Dark rooms
- Clean rooms
- Radiology rooms



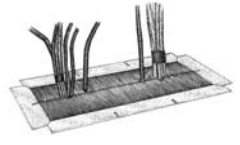
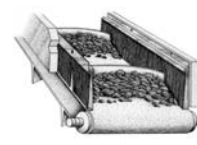
## Cleaning—heavy-duty or delicate wiping

- Wiping threads (ballscrews and lead screws)
- Cleaning conveyor belts, wire ropes, cables, wires
- Guiding and cleaning hoses and wires
- Vacuum collection
- Descaling wire and rods



## Closing Gaps

- Elevator door smoke seals
- Lever seals
- Overhead conveyors
- Conveyor belts
- Machine doors
- Cable management
- Raised computer room floor seals



## Static Dissipation

- Web presses
- Packaging
- High-speed rolls, paper, film
- Textiles
- Electronics



## Sealing machinery from chips and debris

- Bushings/Bearings
- Robotics
- Ball screws
- Linear motion/positioning
- Hydraulic rams



## HOW TO ORDER\*

Sealeze experienced Sales Representatives are available to assist you in ordering the right brush for your application. Depending on the type of brush you need, the following information will be necessary:

For Straight Strip Brush Products:

- Channel Material: galvanized steel, stainless steel, etc.
- Filament Material: nylon, polypropylene, metal, etc.
- Filament Trim Length (OAT) or Exposed Length
- Overall length of brushes and quantity required
- Holder Dimensions: see SEALEZE STOCK ALUMINUM HOLDERS for available shapes and dimensions
- Channel Dimensions: X and Y or channel section size (A, B, C, etc.)
- Filament Diameter and Shape (level or crimped)
- Holder Material: aluminum, stainless steel, etc.

\* To order Formed Brushes, see the FORMED BRUSHES section of this catalog.



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or Fax: **1-800-448-2908** or visit [www.sealeze.com](http://www.sealeze.com)

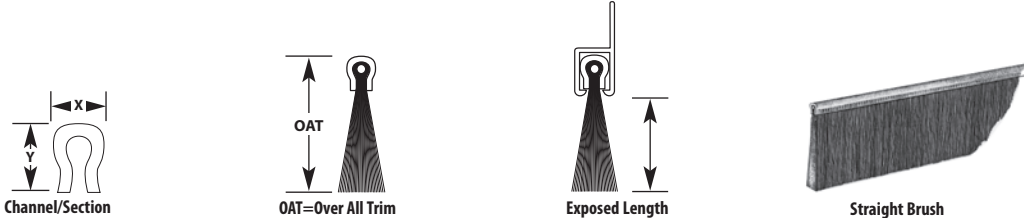


# SEALEZE STOCK NYLON BLACK FILAMENT BRUSHES

Sealeze stock nylon brushes with aluminum holders are ideal choices for addressing numerous applications. Our stock brushes use high-quality nylon filament and have excellent abrasion resistance, flex life, bend recovery, and springiness (often called “flicking”). These brushes have good stiffness, are resistant to set and are best used in working temperatures below 230° F.

Available immediately from our large stock, these brushes come in 8 ft. or 10 ft. lengths with Nylon 6 filament, galvanized steel channels and are available in a variety of filament trim lengths and diameters. Custom trim lengths, filament diameters and filament materials (metal and natural), as well as other channel materials, are also available with quick turnaround.

If our stock nylon brushes don't meet your needs, we can manufacture strip brushes with custom trims, materials and densities. Contact a Sealeze Sales Representative for details.

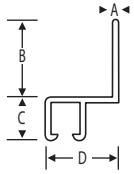


Note: All measurements shown in inches.

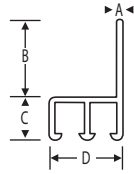
Section	Product Code	X	Y	OAT	Exposed Length	Stock Filament	Other Available Filament Diameters
<b>STRAIGHT STRIP BRUSHES — TYPE 6.0 NYLON — STOCK LENGTHS 8 and 10 feet</b>							
<b>A</b>	SFA102BL	0.095	0.110	0.370	0.220	0.006	0.004 to 0.010
	SFA104BL	0.095	0.110	0.560	0.410	0.006	0.004 to 0.010
	SFA108BL	0.095	0.110	0.900	0.750	0.006	0.004 to 0.010
	SFA110BL	0.095	0.110	1.150	1.000	0.006	0.004 to 0.010
<b>B</b>	SFB105BL	0.150	0.152	0.750	0.540	0.006	0.004 to 0.012
	SFB110BL	0.150	0.152	1.220	1.010	0.006	0.004 to 0.012
<b>C</b>	SFC106BL	0.180	0.199	0.870	0.620	0.006	0.004 to 0.016
	SFC110BL	0.180	0.199	1.280	1.030	0.006	0.004 to 0.016
<b>D</b>	SFD109BL	0.240	0.256	1.250	0.930	0.008	0.006 to 0.020
	SFD112BL	0.240	0.256	1.500	1.180	0.008	0.006 to 0.020
	SFD116BL	0.240	0.256	1.920	1.600	0.012	0.008 to 0.020
	SFD120BL	0.240	0.256	2.310	1.990	0.012	0.008 to 0.020
	SFD130BL	0.240	0.256	3.310	2.990	0.012	0.008 to 0.020
<b>F</b>	SFF115BL	0.313	0.313	1.880	1.500	0.016	0.008 to 0.060
	SFF120BL	0.313	0.313	2.380	2.000	0.016	0.008 to 0.060
	SFF125BL	0.313	0.313	2.880	2.500	0.016	0.008 to 0.060
	SFF130BL	0.313	0.313	3.380	3.000	0.020	0.008 to 0.060
	SFF140BL	0.313	0.313	4.380	4.000	0.020	0.012 to 0.020
	SFF150BL	0.313	0.313	5.380	5.000	0.020	0.012 to 0.020
<b>G</b>	SFG118BL	0.350	0.370	2.250	1.820	0.012	0.008 to 0.060
	SFG118BL	0.350	0.370	2.250	1.820	0.035	0.008 to 0.060
	SFG125BL	0.350	0.370	3.000	2.570	0.012	0.008 to 0.060
	SFG125BL	0.350	0.370	3.000	2.570	0.035	0.008 to 0.060
	SFG130BL	0.350	0.370	3.500	3.070	0.020	0.012 to 0.060
	SFG130BL	0.350	0.370	3.500	3.070	0.035	0.012 to 0.060
	SFG140BL	0.350	0.370	4.500	4.070	0.020	0.012 to 0.060
	SFG140BL	0.350	0.370	4.500	4.070	0.035	0.012 to 0.060
	SFG150BL	0.350	0.370	5.500	5.070	0.020	0.020 to 0.060
	SFG150BL	0.350	0.370	5.500	5.070	0.035	0.020 to 0.060
	SFG160BL	0.350	0.370	6.500	6.070	0.035	0.020 to 0.060
	SFG170BL	0.350	0.370	7.500	7.070	0.035	0.020 to 0.060
<b>K</b>	SFK130BL	0.500	0.500	3.580	3.000	0.045	0.010 to 0.060
	SFK140BL	0.500	0.500	4.580	4.000	0.045	0.010 to 0.060
	SFK150BL	0.500	0.500	5.580	5.000	0.045	0.010 to 0.060
	SFK160BL	0.500	0.500	6.580	6.000	0.060	0.010 to 0.060
	SFK170BL	0.500	0.500	7.580	7.000	0.060	0.010 to 0.060
	SFK1100BL	0.500	0.500	10.580	10.000	0.060	0.010 to 0.060
	SFK1120BL	0.500	0.500	12.580	12.000	0.060	0.010 to 0.060

# SEALEZE STOCK ALUMINUM HOLDERS

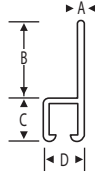
Sealeze extruded aluminum brush holders fit our straight strip brushes and are available in 8-ft. or 10-ft. lengths. Stock brush holders have a clear anodized finish, without mounting holes. To select the correct size, match the section letter of the brush to the section letter of the holder and then choose the flange angle needed. Brush holders can be cut to length, provided with punched holes or machined slots for easy mounting. If one of our stock flange angles does not meet your needs, the "B" dimension of the flange can be bent to meet your requirements. Available finishes include mill, clear anodized, black anodized, gold anodized, and Duranodic (dark bronze). Holders can be formed into custom shapes to match custom-formed brushes. For assistance in selecting the right holder and mounting configuration for your application, contact a Sealeze Sales Representative.



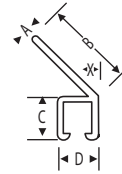
**Straight Flange Offset**



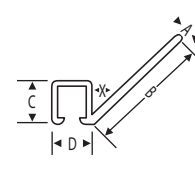
**Straight Flange Double Holder**



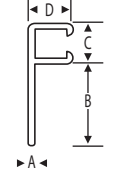
**Straight Flange**



**Angled Flange**



**Reverse Angled Flange**



**Right Angled Flange**

Note: All measurements shown in inches.

Fits Brush Section Size	Holder Product Code	X	A	B	C	D
<b>STRAIGHT FLANGES</b>						
A	XTA180CLA	180°	0.040	0.446	0.212	0.197
B	XTB280CLA	180°	0.062	0.427	0.264	0.267
B	XTB210CLA	180°	0.062	0.735	0.265	0.262
C	XTC380CLA	180°	0.050	0.439	0.311	0.292
C	XTC381CLA	180°	0.050	0.750	0.311	0.292
C	XTC382CLA	180°	0.050	1.500	0.311	0.292
C	XTC383CLA	180°	0.055	3.000	0.311	0.292
D	XTD480CLA (1)	180°	0.062	0.711	0.391	0.366
D	XTD482CLA	180°	0.062	1.500	0.391	0.366
D	XTD483CLA	180°	0.062	3.000	0.391	0.366
F	XTF580CLA	180°	0.062	1.000	0.474	0.469
F	XTF582CLA	180°	0.062	1.500	0.474	0.469
G	XTG680CLA (2)	180°	0.062	0.784	0.528	0.505
G	XTG682CLA	180°	0.062	1.472	0.528	0.505
G	XTG682FCLA (off-set)	180°	0.062	1.407	0.528	0.880
G	XTG685CLA	180°	0.079	4.894	0.576	0.539
G	XTGG680CLA (double)	180°	0.062	1.250	0.528	0.948
K	XTK1082CLA	180°	0.079	2.001	0.689	0.667
<b>ANGLED FLANGES</b>						
A	XTJ140CLA	40°	0.062	0.750	0.225	0.213
B	XTB215CLA	15°	0.062	0.768	0.265	0.262
B	XTB230CLA	30°	0.062	0.862	0.265	0.262
C	XTC345CLA	45°	0.050	1.250	0.311	0.292
D	XTD445CLA	45°	0.062	0.844	0.391	0.366
D	XTD45XCLA	45°	0.062	1.890	0.391	0.366
D	XTD45RCLA (3)	45°	0.062	1.000	0.391	0.366
F	XTF545CLA	45°	0.062	1.500	0.474	0.469
G	XTG645CLA	45°	0.062	1.000	0.528	0.505
<b>RIGHT-ANGLED FLANGES</b>						
A	XTA190CLA	90°	0.056	0.347	0.204	0.220
B	XTB290CLA	90°	0.055	0.423	0.266	0.264
B	XTB292CLA	90°	0.055	1.250	0.266	0.264
C	XTC390CLA	90°	0.060	0.663	0.303	0.331
D	XTD490CLA	90°	0.062	0.697	0.365	0.391
F	XTF590CLA	90°	0.062	1.000	0.469	0.474
G	XTG690CLA	90°	0.062	0.873	0.505	0.528
K	XTK1092CLA	90°	0.079	1.751	0.667	0.688

(1) Also available in roll-formed stainless steel (2) Also available in polypropylene and roll-formed stainless steel (3) Reverse Flange



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or Fax: **1-800-448-2908** or visit [www.sealeze.com](http://www.sealeze.com)



# Static Control Brushes

Sealeze's product line of brushes for static control includes:

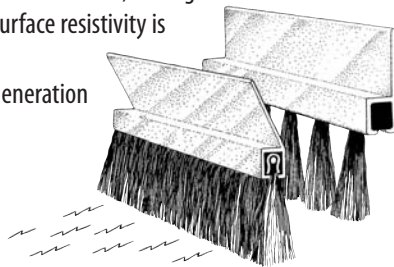
- Static Seal brushes with anti-static and dissipative filaments
- Soft-Fiber static-dissipative brushes with acrylic fiber
- Metal filament brushes

## Static Seal

Our Static Seal brushes are designed for applications requiring electrical conductivity, static dissipation, or EMI shielding properties. Some of these brushes are available with FDA-approved materials for use in FDA controlled environments. Ask your Sealeze Representative for details.

**Static Seal Dissipative Nylon Filament Brushes\*** are made with carbon particles chemically bonded to nylon filaments, to provide a brush with excellent strength and flexibility that resists cracking and flaking in working temperatures up to 230 degrees F. (These brushes are not recommended for use with un-encapsulated electronic microcircuits.) Static Seal static-dissipative brushes are available in mixtures of 20% or 100% conductive filament to meet your application needs. Sealeze Static Seal conductive filaments have an electrical resistance of 20,000 ohms per inch (depending upon filament diameter) for excellent electrical conductivity.

**Static Seal Anti-Static Nylon Filament Brushes\*** are made with nylon filaments that are permanently infused throughout with a conductive agent that does not affect the mechanical or physical properties of the filament. Because it is infused within the filament, flaking or cracking cannot occur. Surface resistivity is  $1 \times 10^9$  ohms. Best used in applications where static generation is not desired.



*\*Product Data Sheets are available for these Static Control Brushes. Visit our web site to download a pdf copy of these data sheets or contact your Sealeze Sales Representative.*

## Brushes for Elevated Temperatures

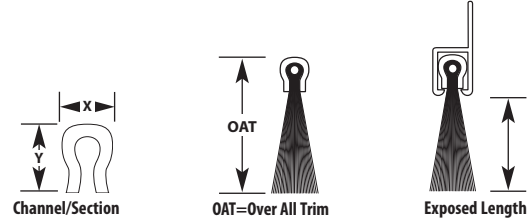
Our synthetic brushes for elevated temperature applications have excellent abrasion resistance, flex life, bend recovery and solvent resistance. They are designed for working temperatures up to 300 degrees F. These brushes are immediately available from stock, are assembled with straight or angled clear anodized aluminum holders and come in 8 ft. or 10 ft. lengths. For applications exceeding 300 degrees F, consider metal filament brushes. Our wide variety of metal filament materials and diameters meet most application requirements.

UL and Warnock Hersey labels (for smoke-seal applications), as well as a variety of ASTM test reports for smoke density and flammability are available. UL rating is for Gasketing Materials for Fire Door Applications, 3-hour rating.

Larger channel sizes and other filament diameters are available.

## Soft-Fiber

**Sealeze Soft-Fiber, Static-Dissipative Brushes\*** are designed for applications requiring the gentlest touch. Made from Thunderon® fiber, these brushes can be installed in any Sealeze size G aluminum, roll-formed steel or stainless steel brush holders. Thunderon is an acrylic fiber that has been chemically bonded with a layer of copper sulfide to produce a resistance of 3 to 5 times  $10^{-4}$  ohms per centimeter. This outer layer becomes a part of the host fiber and will not flake or crack. These brushes are manufactured with tufts spaced 0.25 or 0.50 inches apart with exposed fiber length of 1.50 inches. We can trim to shorter fiber lengths to meet your needs.



### Static Seal Dissipative

Product Code	X	Y	OAT	Filament Diameter	Filament Type
SFB115BL20CF	0.150"	0.152"	1.72"	0.010"	20% Conductive/80% Nylon
SFB115BL100CF	0.150"	0.152"	1.72"	0.010"	100% Conductive Fiber
SFC130BL20CF	0.180"	0.199"	3.25"	0.010"	20% Conductive/80% Nylon
SFC130BL100CF	0.180"	0.199"	3.25"	0.010"	100% Conductive Fiber
SFD130BL20CF	0.240"	0.256"	3.30"	0.010"	20% Conductive/80% Nylon
SFD130BL100CF	0.240"	0.256"	3.30"	0.010"	100% Conductive Fiber

### Static Seal Anti-Static

Consult your Sealeze Sales Representative	Infused Conductive Agent
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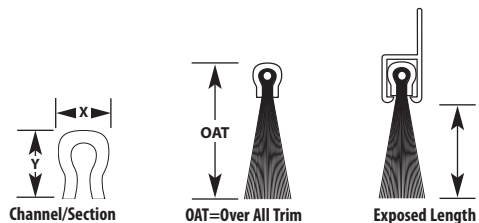
### Soft Fiber Thunderon

SSG515AT1D	0.35	0.40	1.85	0.0015	0.5 Tuft Spacing
SSG515AT2D	0.35	0.40	1.85	0.0015	0.25 Tuft Spacing

Product Code	Flange	Exposed Filament Length	Stock Filament Diameter
B210CLA05AZ	Straight	0.500	0.008
B210CLA10AZ	Straight	1.000	0.008
B215CLA05AZ	15 Degree Angle	0.500	0.008
B215CLA10AZ	15 Degree Angle	1.000	0.008
B230CLA05AZ	30 Degree Angle	0.500	0.008
B230CLA10AZ	30 Degree Angle	1.000	0.008

# FORMED BRUSHES

Sealeze standard formed brushes include coils, spirals, cups, arcs and custom shapes and trim. Channel sizes include A, B, C, D, F, G, and K and are available in galvanized and stainless steels. A wide range of synthetic, natural and metal filaments are available. Products made within the dimensions shown are manufactured with our standard tooling and stocked materials. For formed products constructed with K channel, consult your Sealeze Sales Representative for minimum and maximum dimensions. If you require IDs or ODs that are outside these standard sizes, let us know. We specialize in "pushing the limits" for both large and small diameters. What others can't do, we do every day!



## Channel Section Size

Note: All measurements shown in inches.

Section Size	(X) Width	(Y) Height
A	0.095	0.110
B	0.150	0.152
C	0.180	0.199
D	0.240	0.256
F	0.313	0.313
G	0.350	0.370
K	0.500	0.500

## How to Order Formed Brushes

This section provides information on Sealeze formed brushes. Diagrams show critical dimensions, such as ID (inside diameter), OD (outside diameter), IR (inside radius), etc. and points at which these dimensions are measured. Please refer to these dimensions when completing worksheets or when talking to a Sealeze Representative. (Be sure to identify which, if any, of these dimensions are critical in your application.)

Depending on the Formed Brush Product you need, the following information is necessary:

- Quantity Required
- Inverted Coils: OD and ID
- External Coils: ID and OD
- Inverted Spirals: OD, ID, overall length and pitch
- External Spirals: ID, OD, face length, pitch, mandrel – if required
- Inverted Arcs: OR, IR, degrees of arc
- External Arcs: IR, OR, degrees of arc
- Cup Seals: OD, ID, OAT
- Cup Arcs: OR, IR, OAT, degrees of arc

(ID = inside diameter, OD = outside diameter, IR = inside radius, OR = outside radius, OAT = overall trim length, Pitch = the distance from the center of one turn to the center of the next turn. Refer to FORMED BRUSH section of this catalog to see how dimensions are measured.)

### Need a special shape, small quantity or prototype?

If you are a design engineer looking for small quantities, prototype production, or "non-standard" forms or shapes, let us help. Send us your requirements and concept drawings. We specialize in rapid turn-around, small quantity and prototype production. And, when you're ready for larger production quantities, we don't make you order thousands or make you wait to "fit you into our production schedule." We work with you every step of the way.

**Call 1-800-787-7325 for prompt, friendly assistance.**

## Please Complete our Worksheets

Completing a worksheet ensures accuracy regarding formed brush requirements. Please take a few minutes to fill out the appropriate worksheet. Worksheets are available for the formed brushes listed in this section. To obtain a worksheet for any of these products, call a Sealeze Sales Representative or visit our web site at [www.sealeze.com](http://www.sealeze.com) to download a worksheet in pdf format. For your convenience, worksheets can also be completed on-line.



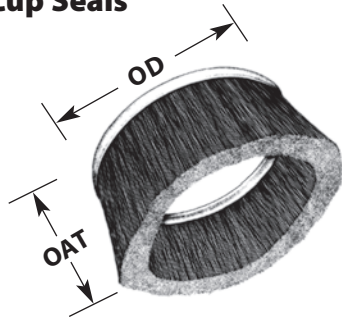
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or Fax: **1-800-448-2908** or visit [www.sealeze.com](http://www.sealeze.com)



# Cup Forms

Cup seals and cup arcs are available with and without brush holders, or can be installed with mounting tabs (see the section Mounting Tabs).

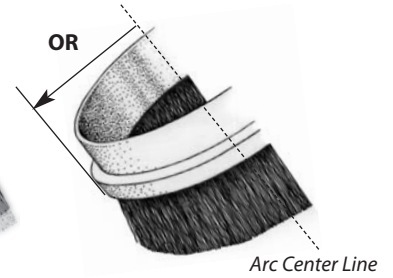
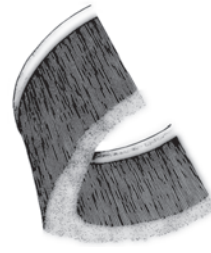
## Cup Seals



### With Formed Holder



## Cup Arcs



### Minimum OD (inches) for Cup Seals

Section	Product Code*	Galvanized Channel	Stainless Channel	Stainless Filament
A	CFA1	1.000	1.500	1.750
B	CFB1	1.250	1.750	2.500
C	CFC1	1.500	2.000	3.250
D	CFD1	2.000	3.000	4.000
F	CFF1	2.750	3.625	4.625
G	CFG1	3.000	4.000	5.000
K	CFK1	10.000	12.000	15.000

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

### Minimum OR (inches) for Cup Arcs

Section	Product Code*	Galvanized Channel	Stainless Channel	Stainless Filament
A	CAA1	0.500	0.750	1.750
B	CAB1	0.625	0.875	1.250
C	CAC1	0.750	1.000	1.630
D	CAD1	1.000	1.500	2.000
F	CAF1	1.375	1.813	2.313
G	CAG1	1.500	2.000	2.500
K	CAK1	5.000	6.000	7.500

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

### Minimum OD (inches) for Cup Seals with Formed Aluminum Holders

Section	Product Code*	Straight Flange		Right-Angle Flange		Angled Holders
		Interior	Exterior	Interior	Exterior	
A	CFA1	4.000	4.000	7.000	6.000	On Application
B	CFB1	6.000	5.000	9.000	7.000	On Application
C	CFC1	7.000	6.000	12.000	8.000	On Application
D	CFD1	7.500	6.500	On Application	9.000	On Application
F	CFF1	On Application	On Application	On Application	On Application	On Application
G	CFG1	12.000	10.000	On Application	12.000	On Application

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

### Minimum OR (inches) for Cup Arcs with Formed Aluminum Holders

Section	Product Code*	Straight Flange	Right-Angle Flange	Angled Holders
A	CAA1	2.000	3.000	On Application
B	CAB1	2.500	3.500	On Application
C	CAC1	3.000	4.000	On Application
D	CAD1	3.250	4.500	On Application
F	CAF1	On Application	On Application	On Application
G	CAG1	6.000	6.000	On Application

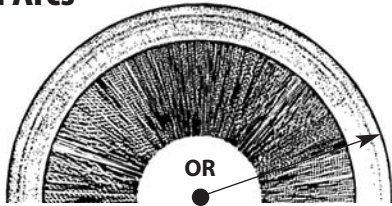
\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

NOTE: The illustration above shows cup seal with the box channel of the formed holder rolled to the outside. The "exterior" measurement for OD is for holders formed as shown, with the box channel on the outside. "Interior" OD is for holders with the box channel on the inside.

## Arc Forms

Inverted arcs (filaments pointed inward) and external arcs (filaments pointed out) are available with and without brush holders. Mounting tabs are also available, see the section Mounting Tabs.

### Inverted Arcs

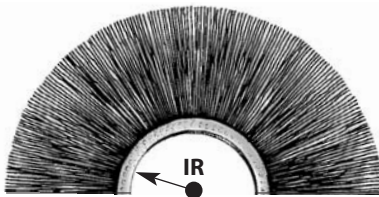


#### Minimum OR (inches) for Inverted Arcs

Section	Product Code*	Galvanized Channel	Stainless Channel	Stainless Filament
A	IAA1	0.313	0.500	On Application
B	IAB1	0.656	1.250	1.250
C	IAC1	1.094	1.875	2.125
D	IAD1	1.425	2.125	2.375
F	IAF1	1.750	2.625	2.875
G	IAG1	2.000	3.000	3.250
K	IAK1	4.000	5.000	7.000

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

### External Arcs

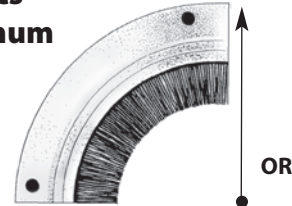


#### Minimum IR (inches) for External Arcs

Section	Product Code*	Galvanized Channel	Stainless Channel	Stainless Filament
A	EAA1	0.375	0.750	On Application
B	EAB1	0.500	1.000	1.000
C	EAC1	0.625	1.125	1.375
D	EAD1	0.750	1.250	1.500
F	EAF1	0.900	1.400	1.650
G	EAG1	1.000	1.500	1.750
K	EAK1	2.000	2.750	3.500

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

### Inverted Arcs with Aluminum Holders

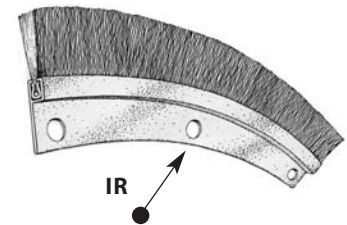


#### Minimum OR (inches) for Inverted Arcs with Formed Aluminum Holders

Section	Product Code*	Straight Flange	Right-Angle Flange	Angled Holders
A	IAA1	2.500	2.000	On Application
B	IAB1	3.000	2.500	On Application
C	IAC1	3.500	3.000	On Application
D	IAD1	3.750	3.250	On Application
F	IAF1	On Application	On Application	On Application
G	IAG1	5.000	4.000	On Application

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

### External Arcs with Aluminum Holders



#### Minimum IR (inches) for External Arcs with Formed Aluminum Holders

Section	Product Code*	Straight Flange	Right-Angle Flange	Angled Holders
A	IAA1	2.500	2.000	On Application
B	IAB1	3.000	2.500	On Application
C	IAC1	3.500	3.000	On Application
D	IAD1	3.750	3.250	On Application
F	IAF1	On Application	On Application	On Application
G	IAG1	5.000	4.000	On Application

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

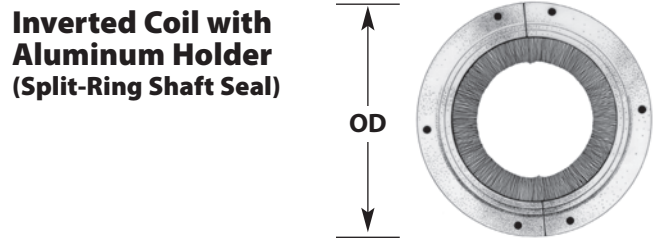
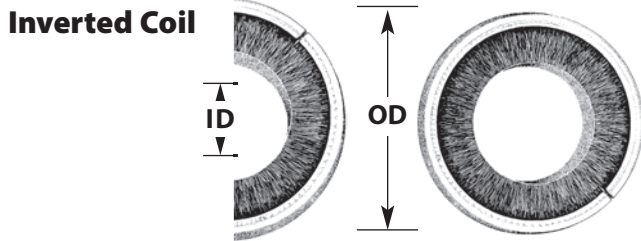


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# Coil Forms

Inverted and external coils are available in a wide range of synthetic, natural and metal filaments, with and without brush holders, or can be installed with mounting tabs (see the section Mounting Tabs). Inverted coils can be mounted in machined retaining rings. Minimum coil diameters are shown below.



## Minimum OD for Inverted Coils (inches)

Section	Product Code*	Galvanized Channel	Stainless Channel	Stainless Filament
A	ICA1	0.625	1.000	1.250
B	ICB1	1.312	2.500	2.500
C	ICC1	2.187	3.750	4.250
D	ICD1	2.850	4.250	4.750
F	ICF1	3.500	5.250	5.750
G	ICG1	4.000	6.000	6.500
K	ICK1	8.000	10.000	14.000

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

## Minimum OD (inches) for Inverted Coils with Formed Aluminum Holders

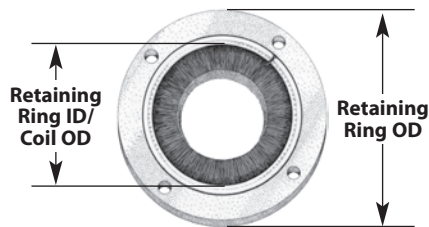
Section	Product Code*	Straight Flange <sup>1</sup>	Right-Angle Flange <sup>2</sup>	Angled Holders
A	ICA1	5.000	4.000	On Application
B	ICB1	6.000	5.000	On Application
C	ICC1	7.000	6.000	On Application
D	ICD1	7.500	6.500	On Application
F	ICF1	On Application	On Application	On Application
G	ICG1	10.000	8.000	On Application

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

<sup>1</sup>Two-Piece Holder

<sup>2</sup>Four-Piece Holder

## Inverted Coil with Machined Retaining Ring

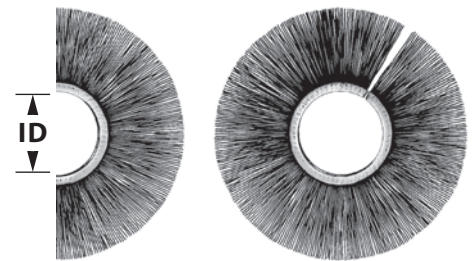


## Minimum Coil OD For Inverted Coils (inches)

Section	Product Code*	Galvanized Channel	Stainless Channel	Stainless Filament
A	ICA1	0.625	1.000	On Application
B	ICB1	1.312	2.500	2.500
C	ICC1	2.187	3.750	4.250
D	ICD1	2.850	4.250	4.750
F	ICF1	3.500	5.250	5.750
G	ICG1	4.000	6.000	6.500

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

## External Coil



## Minimum Id for External Coils (inches)

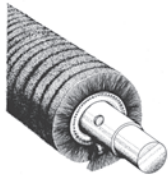
Section	Product Code*	Galvanized Channel	Stainless Channel	Stainless Filament
A	ECA1	0.750	1.500	2.000
B	ECB1	1.000	2.000	2.000
C	ECC1	1.250	2.250	2.750
D	ECD1	1.500	2.500	3.000
F	ECF1	1.800	2.800	3.300
G	ECG1	2.000	3.000	3.500
K	ECK1	4.000	5.500	7.000

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

# Spiral Forms

Inverted and external spirals are available both right-hand and left-hand wound, in a wide variety of synthetic (including conductive), metal, and natural filaments and in a full range of pitches. Mandrels for external spiral brushes can be made to your specifications, including: solid or tubular construction, keyway or threaded mounting, welded or clip-mounted brush.

## External Spiral



ID for External Spirals is measured the same as ID for External Coils.

## Inverted Spiral

(Right-hand turn shown; left-hand turn available)



OD for Inverted Spirals is measured the same as OD for Inverted Coils.

### Minimum ID (inches) for External Spiral

Section	Product Code*	Galvanized Channel	Stainless Channel	Stainless Filament
A	ESA1	0.188	1.000	1.750
B	ESB1	0.250	1.000	1.750
C	ESC1	0.500	1.000	2.250
D	ESD1	0.750	1.750	2.440
F	ESF1	1.000	1.750	2.500
G	ESG1	1.000	1.750	2.500
K	ESK1	1.500	2.625	3.500

\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

### Minimum OD (inches) for Inverted Coils

Section	Product Code*	Galvanized Channel	Stainless Channel	Stainless Filament
A	ISA1	0.625	1.000	1.250
B	ISB1	1.312	2.500	2.500
C	ISC1	2.187	3.750	4.250
D	ISD1	2.850	4.250	4.750
F	ISF1	3.500	5.250	5.750
G	ISG1	4.000	6.000	6.500
K	ISK1	8.000	10.000	14.000

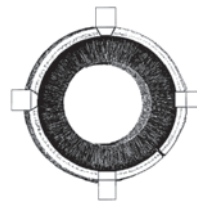
\*T-304 S/S Channel change "1" to "2." Other S/S available on request.

# Mounting Tabs

Mounting tabs are ideal for mounting inverted coils and cup seals when formed holders are not possible. Sealeze aluminum brush holders are cut into tab lengths of 0.5 or 0.375 inches and are available with or without mounting holes. Straight, angled, and right angle flange tabs are available for each channel size as shown in the following tables.

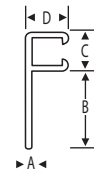
### Straight Flange

Section	Angle X	A	B	C	D
A	180°	0.040	0.446	0.212	0.197
B	180°	0.062	0.427	0.264	0.267
B	180°	0.062	0.735	0.265	0.262
C	180°	0.050	0.439	0.031	0.292
C	180°	0.050	0.750	0.311	0.292
C	180°	0.050	1.500	0.311	0.292
C	180°	0.055	3.000	0.311	0.292
D	180°	0.062	0.711	0.391	0.366
D	180°	0.062	3.000	0.391	0.366
F	180°	0.062	1.000	0.469	0.474
F	180°	0.062	1.500	0.469	0.474
G	180°	0.062	0.784	0.528	0.505
G	180°	0.062	1.472	0.528	0.505
G	180°	0.079	4.894	0.576	0.539

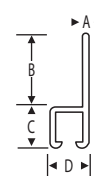


### Angled Flange

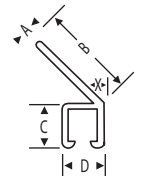
Section	Angle X	A	B	C	D
A	40°	0.040	0.375	0.212	0.197
A	40°	0.062	0.750	0.225	0.213
B	15°	0.062	0.768	0.265	0.262
B	30°	0.062	0.862	0.265	0.262
C	45°	0.050	1.250	0.311	0.292
D	45°	0.062	0.844	0.391	0.366
D	45°	0.062	1.890	0.391	0.366
D	45°	0.062	1.000	0.391	0.366
F	45°	0.062	1.500	0.469	0.474
G	45°	0.062	1.000	0.528	0.505



Right Angled Flange



Straight Flange



Angled Flange

### Right Angled Flange

Section	Angle X	A	B	C	D
A	90°	0.056	0.347	0.204	0.220
B	90°	0.055	0.423	0.266	0.264
B	90°	0.055	1.250	0.266	0.264
C	90°	0.060	0.663	0.303	0.331
D	90°	0.062	0.697	0.365	0.391
F	90°	0.062	1.000	0.469	0.474
G	90°	0.062	0.873	0.505	0.528



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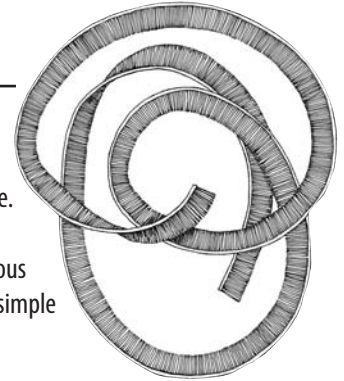
# SPECIALTY BRUSH PRODUCTS

Sealeze manufactures and stocks a wide variety of specialty brushes for various applications and working environments. Many of the brushes described in this section can be formed into any of the products described in the Formed Brush section of this catalog. In addition, these brushes can be custom formed into shapes and filament trims to meet your specific application requirements.

## Flexible Brushes



Ez-Flex™ strip brush utilizes a non-metal construction to provide a flexible strip brush that increases your design options and can reduce weight in weight-critical applications as compared to metal-backed strip brushes. Ez-Flex brush is constructed with high-quality nylon or polypropylene filaments incorporated into a continuous polypropylene or nylon base. Available with a wide range of filament diameters and filament lengths and constructed with bases of various durometers, these brushes can be as stiff or as flexible as your design requires. And because Ez-Flex brush is manufactured in a continuous process, it can be made in virtually unlimited lengths to span long distances or can be stored in rolls and “cut-to-size” with simple hand tools at your site.



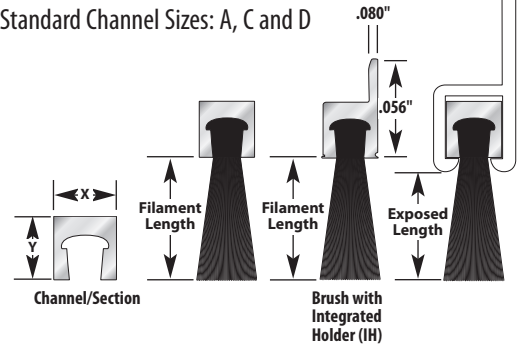
Section	Product Code	X	Y	OAT	Exposed Length	Stock Filament	Other Filament	Filament Length	
								Minimum	Maximum
A	FXA102BL	0.104	0.141	0.401	0.220	0.006	.004 to .010	0.125	4.000
A	FXA104BL	0.104	0.141	0.591	0.410	0.006	.004 to .010	0.125	4.000
A	FXA108BL	0.104	0.141	0.931	0.750	0.006	.004 to .010	0.125	4.000
A	FXA110BL	0.104	0.141	1.181	1.000	0.006	.004 to .010	0.125	4.000
C	FXC106BL	0.180	0.201	0.670	0.620	0.006	.004 to .016	0.125	4.000
C	FXC110BL	0.180	0.201	1.281	1.030	0.006	.004 to .016	0.125	4.000
D	FXD109BL	0.233	0.245	1.237	0.930	0.008	.006 to .020	0.125	4.000
D	FXD112BL	0.233	0.245	1.487	1.180	0.008	.006 to .020	0.125	4.000
D	FXD116BL	0.233	0.245	1.907	1.600	0.012	.008 to .020	0.125	4.000
D	FXD120BL	0.233	0.245	2.297	1.990	0.012	.008 to .020	0.125	4.000
D	FXD130BL	0.233	0.245	3.297	2.990	0.012	.008 to .020	0.125	4.000
IH	FXC80IH06BL	0.185	0.213	0.833	0.620	0.006	.004 to .016	0.125	4.000
IH	FXC80IH10BL	0.185	0.213	0.246	1.030	0.006	.004 to .016	0.125	4.000

Available Filaments: Nylon 6, 6.6 and 6.12, Polypropylene, Polyester

Available Filament Diameters (inches): 0.006, 0.008, 0.010 and 0.012

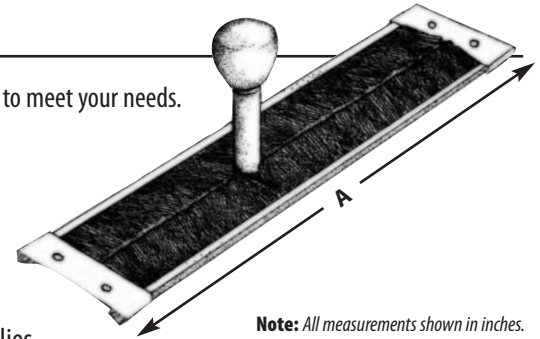
Standard Channel Materials: Polypropylene in various durometers

Standard Channel Sizes: A, C and D

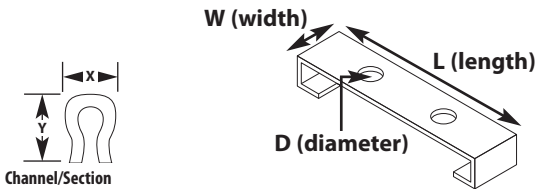


## Lever Seal Brushes

Lever seals are available in a variety of filaments and can be constructed in channel and clip materials to meet your needs. They can be made to almost any length and width.



Note: All measurements shown in inches.



Section	X	Y
A	0.095	0.110
B	0.150	0.152
C	0.180	0.199
D	0.240	0.256
F	0.313	0.313
G	0.350	0.370
K	0.500	0.500

Stock T-304 Stainless Steel Clip Specifications for Stock Lever Seals

Fits Brush Channel	Length	Width	Hole Diameter	Hole Spacing
B	1.06"	.316"	.138"	.340"
C	2.46"	.315"	.138"	.807"
D	3.06"	.500"	.190"	1.236"

Stock Lever Seal Assemblies

Part Number	Description
LSB103BC	T-304 stainless steel clips (2); SFB103BC stock nylon brush (cut to length "A") with 0.500 OAT, nylon black crimped filament, galvanized steel channel.
LSC110BC	T-304 stainless steel clips (2); SFC110BC stock nylon brush (cut to length "A") with 1.20" OAT, nylon black crimped filament, galvanized steel channel.
LSD112BC	T-304 stainless steel clips (2); SFD112BC stock nylon brush (cut to length "A") with 1.50" OAT, nylon black crimped filament, galvanized steel channel.

## Metal Filament Brushes and Holders

Sealeze manufactures the highest-quality metal brushes with the widest selection of channel sizes. Our wide selection assures you the best size and density brush for your application. Sealeze metal filament brushes are available with mild steel, stainless steels, brass, and phosphor bronze filaments and are constructed with galvanized steel or stainless steel channel materials. Roll-formed stainless steel holders and anodized aluminum holders are available.

Standard Filaments: Stainless steels (T-304 and other S/S available), brass, brass-coated steel, mild steel and phosphor bronze

Standard Filament Diameters (inches): 0.003, 0.004, 0.005, 0.008, 0.010 and 0.012

Standard Channel Materials: Stainless steel (T-304 and other S/S available) and galvanized steel

Standard Channel Sizes: A, B, C, D, F, G and K

We can also provide brushes and holders in exotic materials such as monel, inconel and specialty brass. Contact your Sealeze Sales Representative.

**Note:** All measurements shown in inches.

Section	X	Y	Min. OAT	Max. OAT
A	0.095	0.110	0.375	3.000
B	0.150	0.152	0.375	4.000
C	0.180	0.199	0.527	5.000
D	0.240	0.256	0.500	6.250
F	0.313	0.313	0.600	6.250
G	0.350	0.370	0.750	6.250
K	0.500	0.500	On Application	On Application



## Brushes for FDA-Controlled Environments

Filaments which resist moisture, inhibiting the growth of bacteria, and antimicrobial filaments specifically designed to inhibit bacterial growth are available.

Sealeze stainless steel-constructed brushes with our Silvershield™ line of filaments, powered by AgION™ antimicrobial, creates an environment hostile to a broad spectrum of bacteria, mold and fungi. These filaments utilize silver ions, a naturally occurring inorganic microbe inhibitor which is effective throughout the life of the product, to inhibit the growth of damaging microbes, reducing cross contamination and eliminating odors caused by bacteria. These antimicrobial filament materials are EPA registered and approved for use by the FDA and NSF. Brushes can be formed into custom shapes to meet your needs.

## Wire Descaling Brushes

Ideal for mechanical removal of scale, filings and excess coatings on rods, wires and cables, inverted brush spirals are available in a wide variety of metal and synthetic filaments. Sealeze offers the widest range of sizes and custom inside diameters and lengths to meet your specific application needs. Our stock and custom-made brushes are available with the shortest lead times.

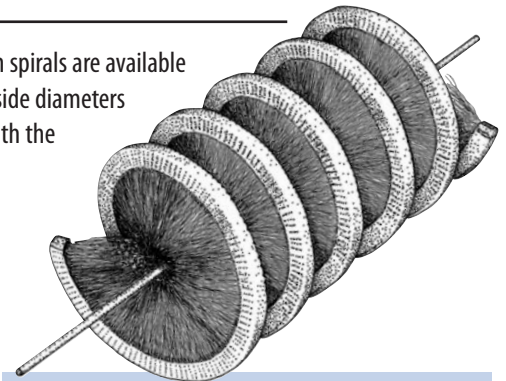
**Brass Coated Steel Filament** with galvanized steel holding section for removing scale, lubrication residue and carrier coating on wires and rods. *Available in 2.25in. and 3 in. diameter, 1 meter in length.*

**Stainless Steel Filament** with stainless steel holding section for aggressive cleaning and high-temperature environments. *Available in 1.00 in. and 1.25 in. diameter, 1 meter in length.*

**White Nylon Filament** with stainless steel holding section for secondary cleaning of small diameter wire in alkaline, acid or petroleum cleaning baths. *Available in 2.25 in. diameter, 1 meter in length.*

**Black Nylon Filament** with galvanized steel holding section for removing light scale and light coatings. *Available in 2.25 in. diameter, 1 meter in length.*

**"Feather-Touch" Nylon Filament** for removing talc from copper wire. *Available in 2.25 in. diameter, 1 meter in length.*



### Don't see what you need?

Larger and smaller diameter spirals are available with short lead times. Spirals are available in almost any length, or can be cut to the exact length you need.

**Call 1-800-787-7325 for prompt, friendly assistance.**



For Immediate Answers and Free Samples Call **1-800-787-7325**  
or Fax: **1-800-448-2908** or visit [www.sealeze.com](http://www.sealeze.com)

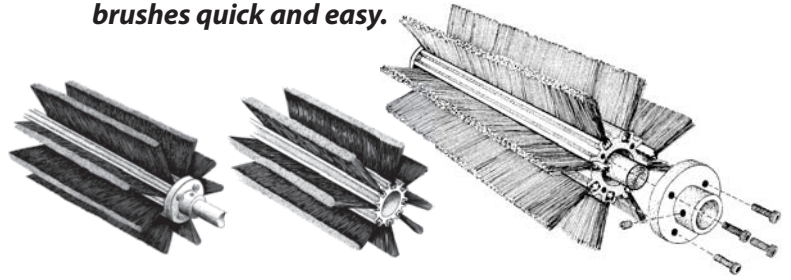


## Rotary Brushes

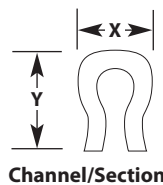
Custom rotary strip brushes are available in two sizes: D Series and G Series. Extrusions are made from aluminum alloy. Machined aluminum alloy mounting hubs are stocked. Hubs for D Series rotary brushes enable mounting on shafts with 0.750 inch diameter; hubs for G Series rotary brushes enable mounting on shafts with 1.000 inch diameter. Brush channel materials include galvanized steel and a variety of stainless steels, including T-304. A wide variety of filament materials is available (including crimped and level) with a wide selection of filament diameters. Custom mandrels and hubs can be designed and manufactured. Face-lengths from 1" to 120" are available.

*These brushes are best used at speeds under 90 rpm and in applications requiring light cleaning or moving or guiding products.*

**Save time and money by replacing just the worn brushes! Sealeze rotary brushes are easy to assemble and disassemble, making changing brushes quick and easy.**



Channel Section Size		
Section Size	(X) Width (inches)	(Y) Height (inches)
D	0.240	0.256
G	0.350	0.370



**Rotary Strip Brush Assemblies**

Series	Extrusion Dimensions		Minimum Assembly with Brush OD
	OD	ID	
D	2.220	1.125	3.18
G	2.473	1.375	4.25

## XtraSeal™ Brushes

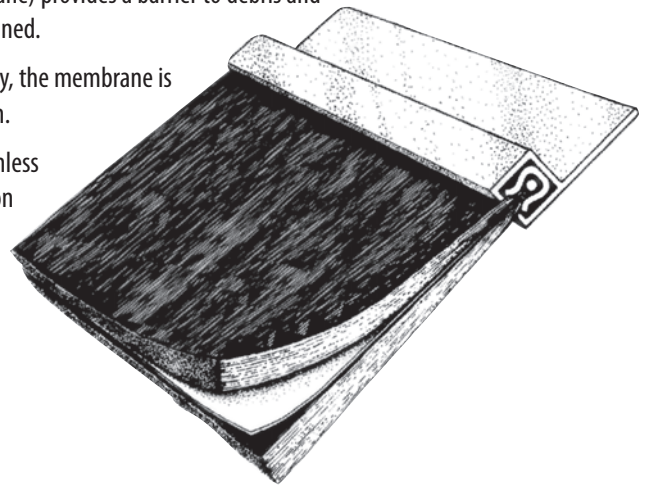
XtraSeal brushes are ideal for heavy-duty sealing applications where an impervious, yet flexible, shield is required.

Sandwiched between layers of filament, a solid sheet of thin, flexible material (membrane) provides a barrier to debris and sprays. This is ideal for tough applications where debris or jets of fluid need to be contained.

XtraSeal brushes can be provided with membrane lengths to your specification. Typically, the membrane is 0.250 inches shorter than the brush filaments to maintain the sweep effect of the brush.

XtraSeal brushes are available in A, B, C, D, F and G sizes, with galvanized steel and stainless steel (T-304 and other S/S available) channel materials. Filament materials include nylon and polypropylene (level and crimped) in a full range of diameters. Barrier materials include: EPDM (not available for size A), polyethylene, polypropylene, and others.

Visit our web site at [www.Sealeze.com](http://www.Sealeze.com) to download test report: AIRFLOW with XTRASEAL™ BRUSH



## Natural Fiber Brushes

Sealeze manufactures brushes using tampico, pig hair and horsehair filament for applications where synthetic filaments are not suitable. Tampico is a medium-soft texture, resistant to heat and chemicals, and highly water absorbent and most often used for light scrubbing, washing and light-abrasive applications. Horsehair is relatively soft to moderately stiff, depending on bristle length and grade. Horsehair is used dry for polishing or scratch-free cleaning on delicate surfaces or as an antistatic filament that resists generation of static electricity. Pig hair, often used for cleaning or spreading viscous fluids, is a stiff, resilient, non-conductive fiber.

# CUSTOMIZING BRUSH TO YOUR NEEDS

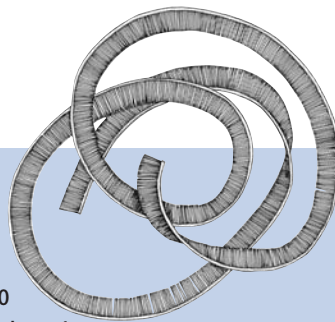
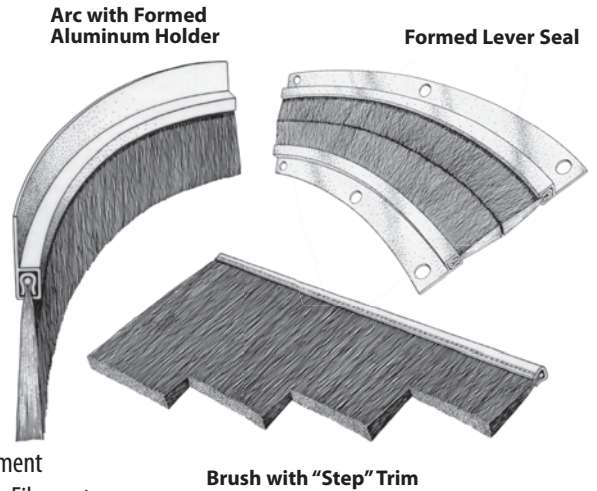
- Machined and Formed Brushes and Holders to Your Engineering Drawings
- Widest Variety of Brush and Holder Materials
- Anodizing and Powder Coating Holders in Any Color
- Assembly and Punching
- Prototyping
- R&D and Consulting – our experienced in-house engineers are here to assist you
- Technical Data Sheets
- FREE Straight Brush Samples — for brush property evaluation

In addition to manufacturing straight strip brushes with exposed filament lengths of 0.125 inches and greater, we can manufacture brushes with special profile trims. We can die-cut filament profiles to your drawings to provide a brush that will seal or wipe an irregular shape or surface. Filaments are available with diameters of 0.003 inches and larger, in almost any color you might need. Minimum orders may apply for special filament colors, shapes, etc.

Our stock brush channels are galvanized steel and immediately available. We stock stainless steel materials and can provide stainless steel channel brushes in 5 to 10 working days. We have the capability to make brushes with brass and monel channels and will consider other channel materials upon request. Longer lead times and minimum orders may apply.

A large variety of standard hole punch sizes and shapes are available to meet your mounting needs. Ask your Sealeze Sales Representative or go to our web site for a complete list of these punch sizes and shapes. If our standard sizes and shapes don't meet your needs, we can provide mounting holes to your exact dimensions and placement. We can machine-notch the flange to perfectly fit your application and holders can be anodized to your specifications or powder coated to any color. All of our extruded holders are aluminum; roll-formed holders in alloys such as steel, stainless steel, brass and monel are available.

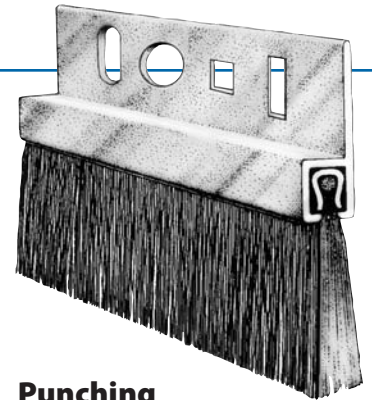
Our in-house engineers are available to help you identify the exact filament and physical requirements for your application. We can work with your engineers to provide custom-formed inverted and external coils, external and inverted spirals, cups, arcs and custom shapes and trim length.



## Ez-Flex™ Strip Brush

Sealeze brings another dimension to your design options. The flexibility of our Ez-Flex brush allows it to conform to contours and shapes that typical rigid brush can't address. Durable and lightweight, Ez-Flex is an excellent alternative to metal-backed strip brush. See Flexible Brushes in the SPECIALITY BRUSH section of this catalog for details.

**Call 1-800-787-7325 for prompt, friendly assistance.**



## Punching Options

Brush holders can be provided with mounting holes in a wide variety of standard shapes and sizes. Holes can be located to your specific requirements. Custom sizes, shapes and notches can be provided as required.

Standard shapes including:

- Obround
- Round
- Square
- Rectangular Slots

*Ask your Sealeze Sales Representative or go to our web site for a complete list of standard punch sizes and shapes.*



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Contact your Sealeze Sales Representative



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phone: 804-743-0982 fax: 804-743-3413 | toll free phone: 800-787-7325 fax: 800-448-2908