



QUALITY



SERVICE



VALUE



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CARBIDE RODS & BARS

Viper Carbide & Metals Inc.



CATALOG

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- 02 CUT-LENGTH CARBIDE RODS,
h6 GROUND,POLISHED,CHAMFERED
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h6 GROUND & POLISHED
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ABOUT US

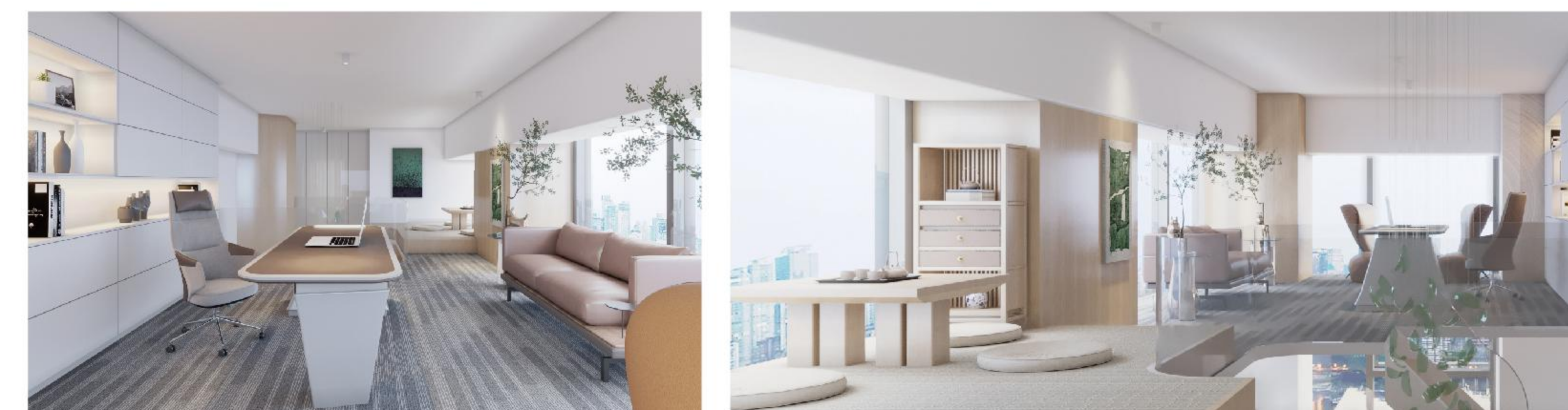


Viper Carbide & Metals, Inc. was founded on August 7, 2019, with the purpose of providing high-performance Carbide products to the North American market.

Based in Michigan, we are a company passionate in the carbide business and committed to always going beyond our customer's expectations when it comes to quality, packaging & delivery.

With a vast variety of carbide products, we hope to always have exactly what you are looking for with the material quality you expect.

Viper Carbide believes not only in high quality products, but the highest-quality customer service. With that said, we will always do our best to provide you with products that exceed your expectations and earn your trust. Our success is defined by Viper's dedication to customer service and the happiness of you, the customer.



GRADES CHART

CHEMICAL COMP			PHYSICAL DATA					
GRADE	WC	CO	GRAIN (μ)	HARDNESS (HV30)	HARDNESS (HRA)	TRS (N/mm²)	TRS (KPSI)	DENSITY (g/cm³)
VP06F	94.0%	6.0%	0.5	1860	93.5	3800	551.0	14.90
VP10X	90.0%	10.0%	0.7	1600	92.1	3800	551.0	14.50
VP06G	94.0%	6.0%	1.2	1450	90.5	2400	348.1	14.90

Various sizes and grades available, per customer request

CARBIDE RODS, ROUND: TYPES



CUT-LENGTH CARBIDE RODS,
h6 GROUND, POLISHED, CHAMFERED

Sizes in inch.

CUT-LENGTHS, CHAMFERED 1 END				
OD x Length	OD x Length	OD x Length	OD x Length	OD x Length
1/8 x 1-1/2	1/4 x 1-1/2	3/8 x 2-1/2	1/2 x 3-1/2	3/4 x 3
1/8 x 2	1/4 x 2	3/8 x 3	1/2 x 4	3/4 x 4
1/8 x 3	1/4 x 2-1/2	3/8 x 3-1/2	1/2 x 5	3/4 x 5
1/8 x 4	1/4 x 3	3/8 x 4	1/2 x 6	3/4 x 6
1/8 x 4-1/2	1/4 x 3-1/2	3/8 x 5	9/16 x 3	7/8 x 4
5/32 x 2	1/4 x 4	3/8 x 6	9/16 x 3-1/2	7/8 x 5
5/32 x 2 -1/2	9/32 x 1-1/2	7/16 x 2-1/2	9/16 x 6	1 x 4
11/64 x6-1/2	5/16 x 1-1/4	7/16 x 2-3/4	5/8 x 3	1 x 5
3/16 x 1-1/2	5/16 x 2	7/16 x 3	5/8 x 3-1/2	1 x 6
3/16 x 2	5/16 x 2-1/2	7/16 x 4	5/8 x 4	1 x 7
3/16 x 2-1/2	5/16 x 3	7/16 x 6	5/8 x 4-1/2	1 x 8
3/16 x 3	5/16 x 4	1/2 x 2-1/2	5/8 x 5	1-1/4 x 6
3/16 x 4	3/8 x 2	1/2 x 3	5/8 x 6	

Various sizes and grades available, per customer request

CUT-LENGTH CARBIDE RODS,
h6 GROUND, POLISHED, CHAMFERED

Sizes in mm.

CHAMFERED 1 END, CUT-LENGTHS				
OD x Length	OD x Length	OD x Length	OD x Length	OD x Length
3 x 38	4 x 80	6 x 66	9.5 x 84	16 x 93
3 x 46	4.5 x 58	6 x 75	10 x 66	18 x 84
3 x 50	4.5 x 62	6 x 80	10 x 70	18 x 93
3 x 52	4.5 x 80	6 x 93	10 x 73	18 x 130
3 x 61	4.5 x 86	6.5 x 70	10 x 75	20 x 93
3 x 65	5 x 50	6.5 x 74	10 x 90	20 x 100
3 x 70	5 x 62	7 x 60	10.5 x 89	20 x 105
3 x 75	5 x 66	7 x 80	10.5 x 95	20 x 130
3 x 100	5 x 75	7.5 x 74	11 x 95	25 x 74
3.5 x 55	5 x 86	8 x 60	12 x 75	25 x 125
3.5 x 70	5 x 93	8 x 64	14 x 75	25 x 150
4 x 40	5.5 x 66	8 x 75	14 x 82	25 x 170
4 x 51	5.5 x 93	8 x 80	14 x 85	
4 x 55	6 x 50	8.5 x 79	15 x 92	
4 x 58	6 x 54	9 x 67	16 x 82	
4 x 75	6 x 60	9 x 84	16 x 89	

Various sizes and grades available, per customer request

LONG-LENGTH CARBIDE RODS,
h6 GROUND & POLISHED

Sizes in mm.

LONG-LENGTHS 310 mm, 330 mm									
OD	OD	OD	OD	OD	OD	OD	OD	OD	OD
0.5	3	5.5	8	10.5	13	15.5	18	20.5	23
1	3.5	6	8.5	11	13.5	16	18.5	21	23.5
1.5	4	6.5	9	11.5	14	16.5	19	21.5	24
2	4.5	7	9.5	12	14.5	17	19.5	22	24.5
2.5	5	7.5	10	12.5	15	17.5	20	22.5	25
									26

Various sizes and grades available, per customer request

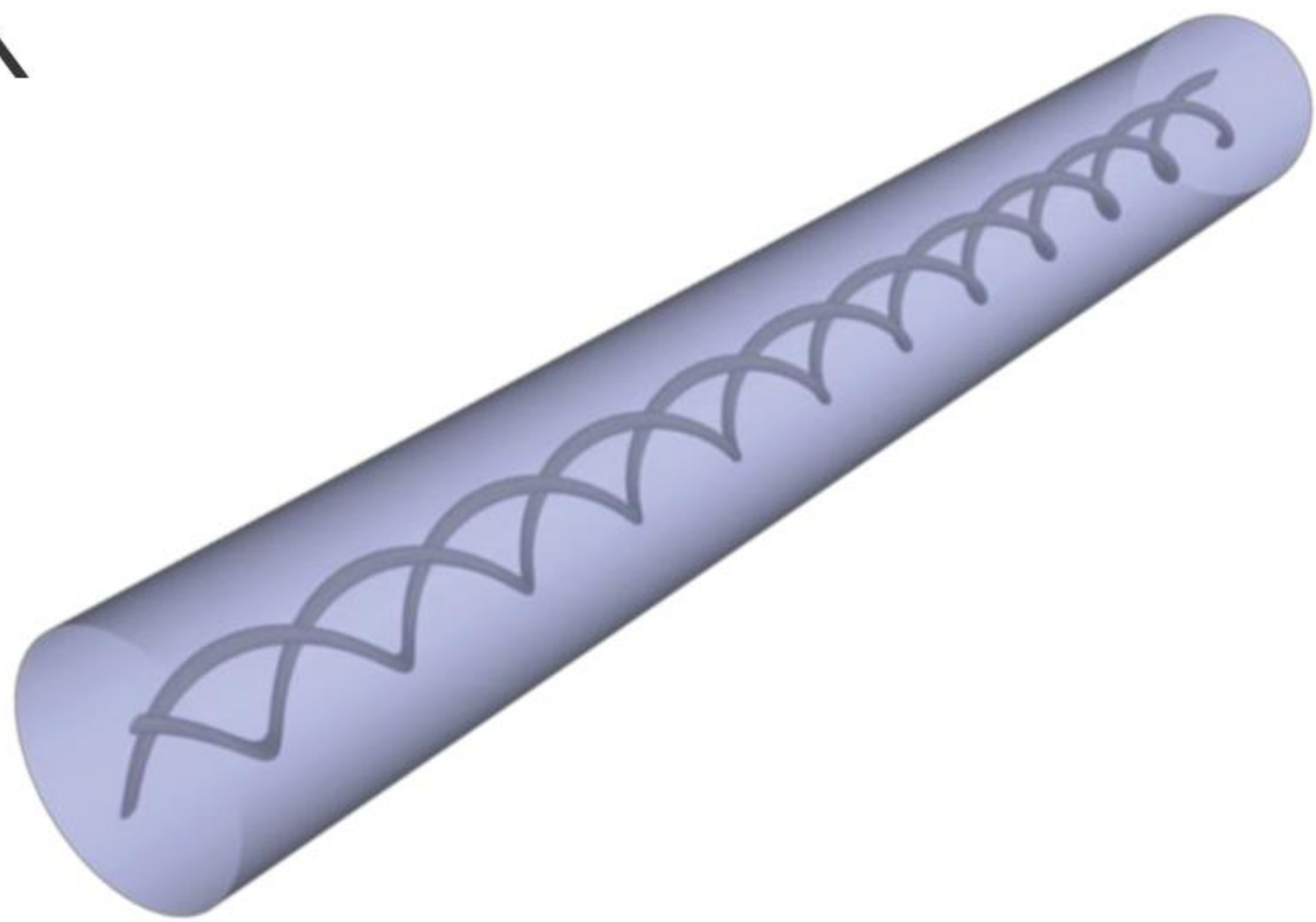
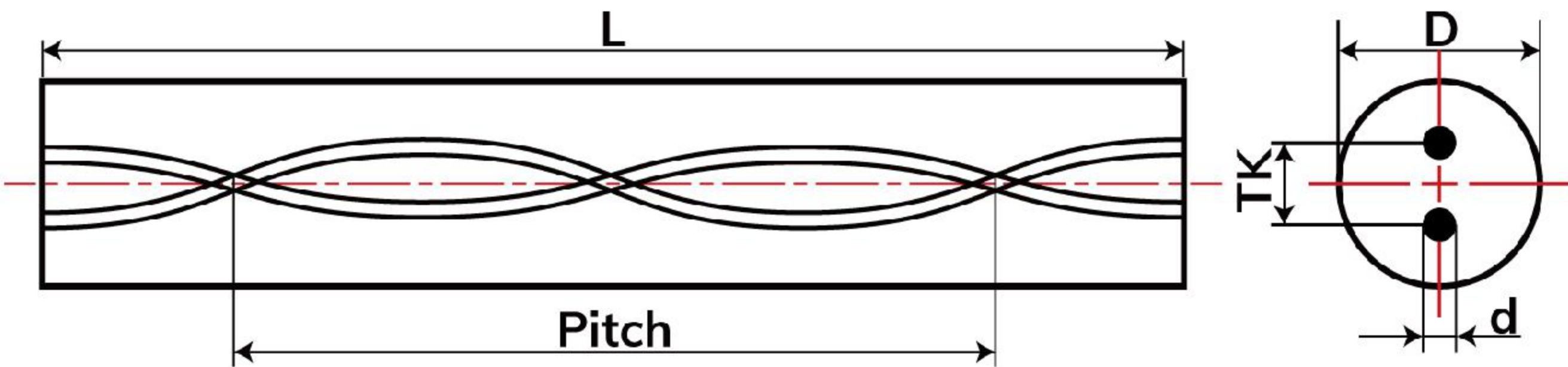
RANDOM RODS, RR SERIES

Sizes in inch.

Iterm	OD	L	Iterm	O	L
RR-6	3/32	12.5	RR-22	11/32	12.5
RR-7	7/64	12.5	RR-23	23/64	12.5
RR-8	1/8	12.5	RR-24	3/8	12.5
RR-9	9/64	12.5	RR-25	25/64	12.5
RR-10	5/32	12.5	RR-26	13/32	12.5
RR-11	11/64	12.5	RR-27	27/64	12.5
RR-12	3/16	12.5	RR-28	7/16	12.5
RR-13	13/64	12.5	RR-30	15/32	12.5
RR-14	7/32	12.5	RR-32	1/2	12.5
RR-15	15/64	12.5	RR-40	5/8	12.5
RR-16	1/4	12.5	RR-44	11/16	12.5
RR-17	17/64	12.5	RR-48	3/4	12.5
RR-18	9/32	12.5	RR-52	52/64	12.5
RR-19	19/64	12.5	RR-56	56/64	12.5
RR-20	5/16	12.5	RR-60	60/64	12.5
RR-21	21/64	12.5	RR-64	64/64	12.5

Various sizes and grades available, per customer request

2 COOLANT HOLES, 30°HELIX

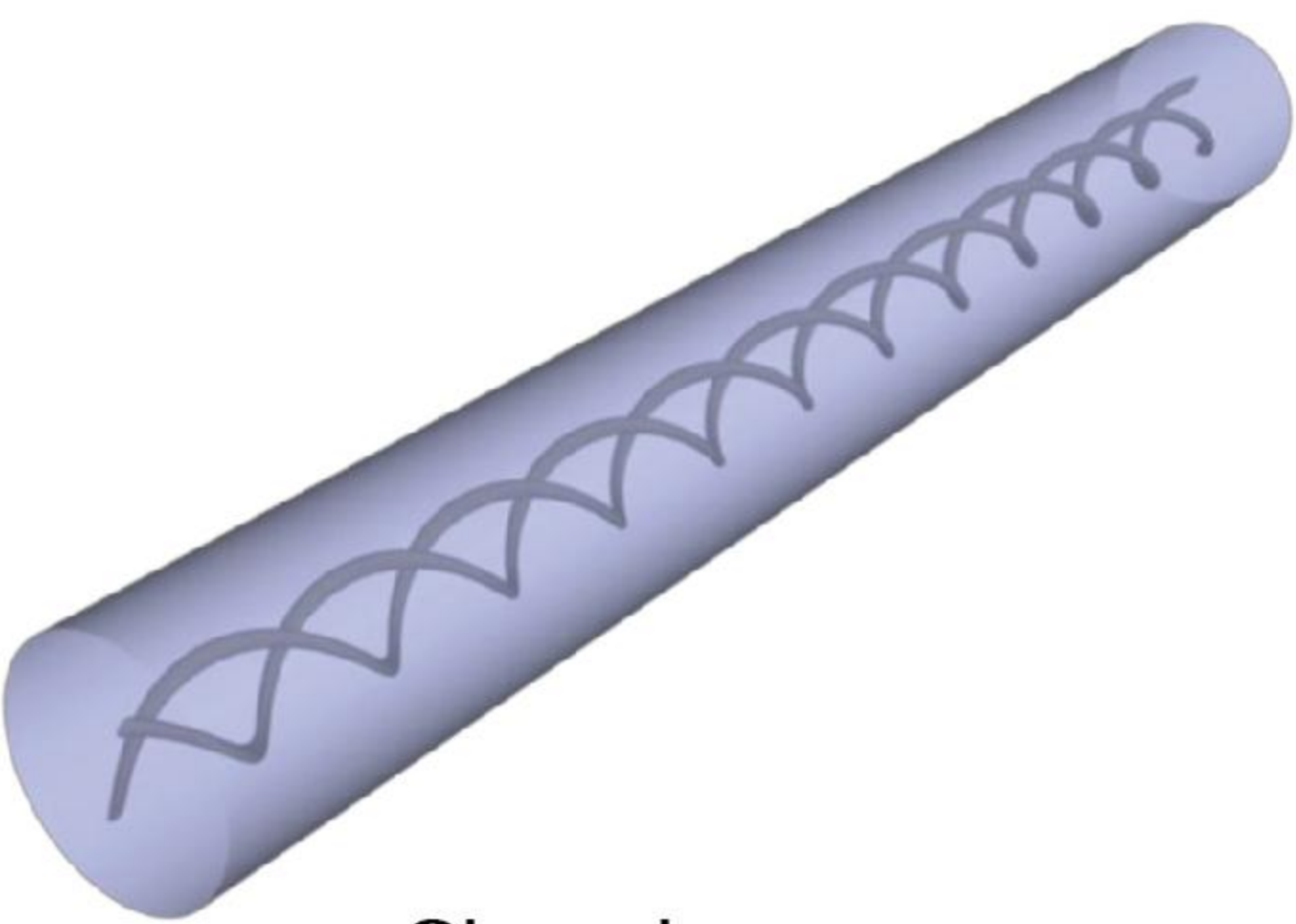
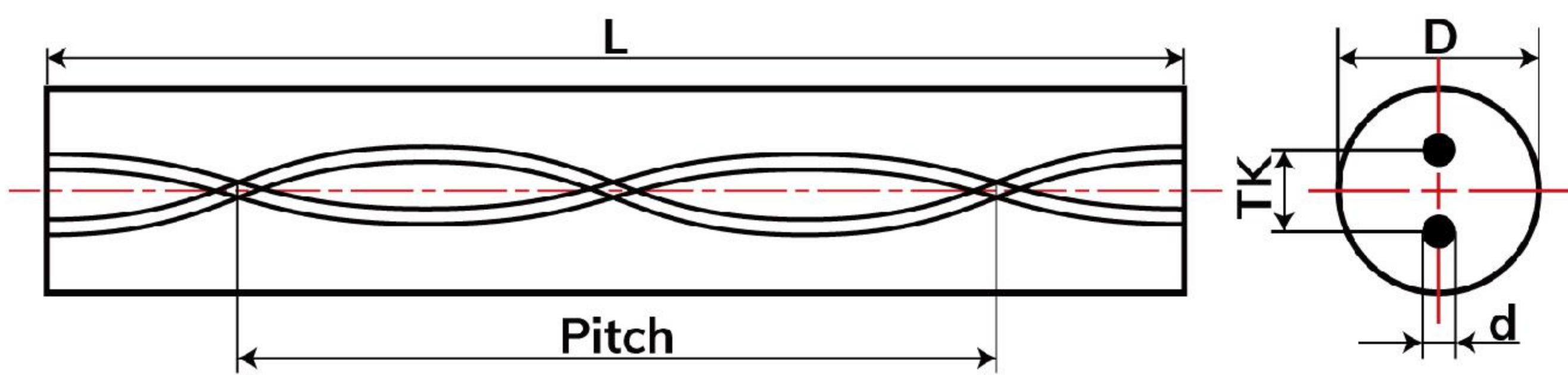


Sizes in mm.

D	D h5/h6	d	TK	Pitch
3.3 +0.3/+0.7	3	0.40 ±0.10	1.60 ±0.10	16.32
4.3 +0.3/+0.7	4	0.60 ±0.10	2.10 ±0.10	21.77
5.3 +0.3/+0.7	5	0.70 ±0.10	2.10 ±0.20	27.21
6.3 +0.3/+0.7	6	0.70 ±0.10	2.40 ±0.20	32.65
7.3 +0.3/+0.7	7	1.00 ±0.15	3.50 ±0.20	38.09
8.3 +0.3/+0.7	8	1.00 ±0.15	3.80 ±0.20	43.53
9.3 +0.3/+0.7	9	1.40 ±0.15	4.50 ±0.30	48.97
10.3 +0.3/+0.7	10	1.40 ±0.15	4.50 ±0.30	54.41
11.3 +0.4/+0.9	11	1.40 ±0.15	4.90 ±0.40	59.86
12.3 +0.4/+0.9	12	1.40 ±0.15	5.85 ±0.40	65.30
13.3 +0.4/+0.9	13	1.75 ±0.20	6.10 ±0.40	70.74
14.3 +0.4/+0.9	14	1.75 ±0.20	6.70 ±0.40	76.18
15.3 +0.4/+0.9	15	1.75 ±0.20	7.30 ±0.40	81.62
16.3 +0.4/+0.9	16	1.75 ±0.20	7.90 ±0.40	87.06
17.3 +0.4/+1.0	17	1.75 ±0.20	8.50 ±0.40	92.50
18.3 +0.4/+1.0	18	2.00 ±0.25	9.15 ±0.40	97.95
19.3 +0.4/+1.0	19	2.00 ±0.25	9.70 ±0.40	103.39
20.3 +0.4/+1.0	20	2.00 ±0.25	9.90 ±0.40	108.83
22.3 +0.4/+1.0	22	2.00 ±0.25	11.10 ±0.40	119.71
25.3 +0.4/+1.0	25	2.00 ±0.25	12.80 ±0.40	136.03

Various sizes and grades available, per customer request

2 COOLANT HOLES, 40°HELIX

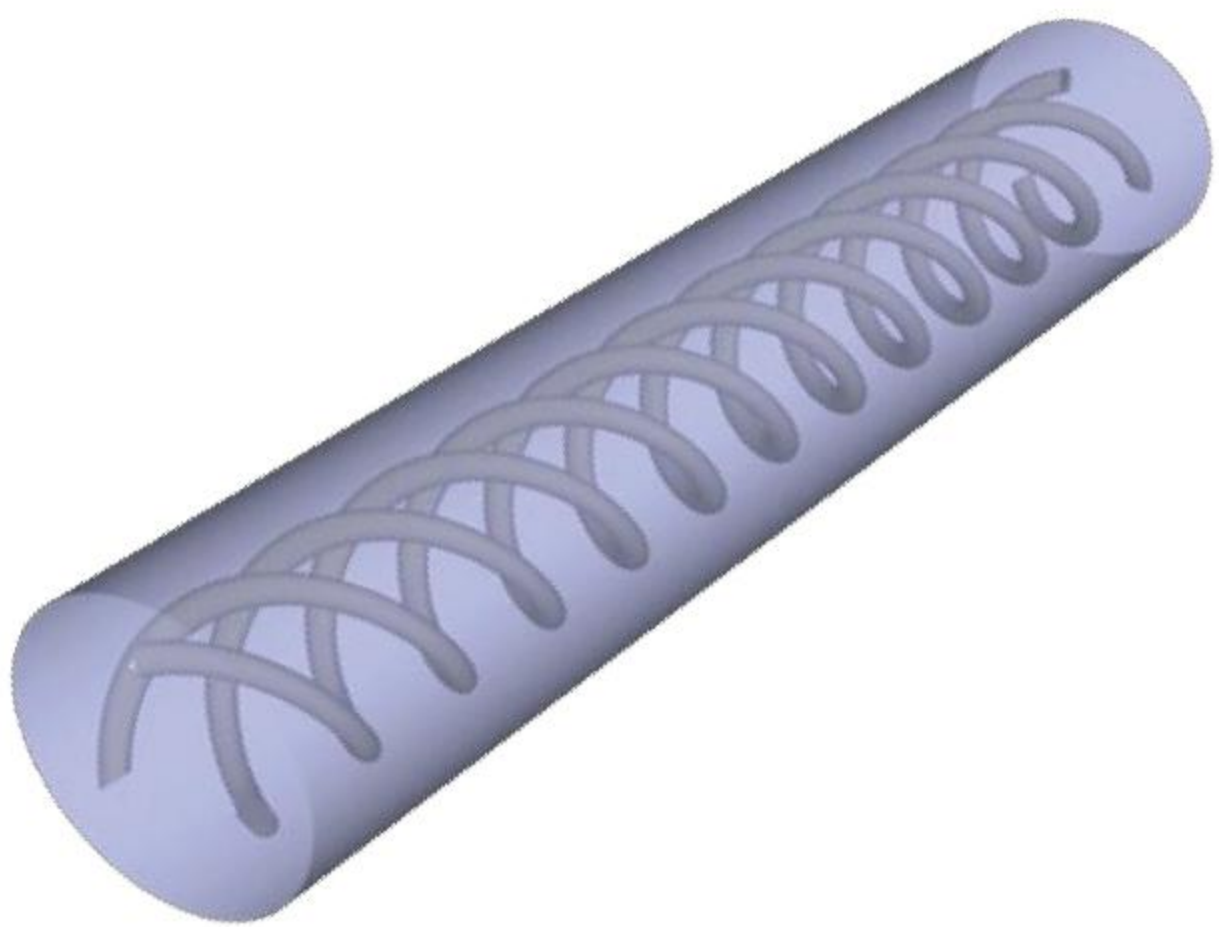
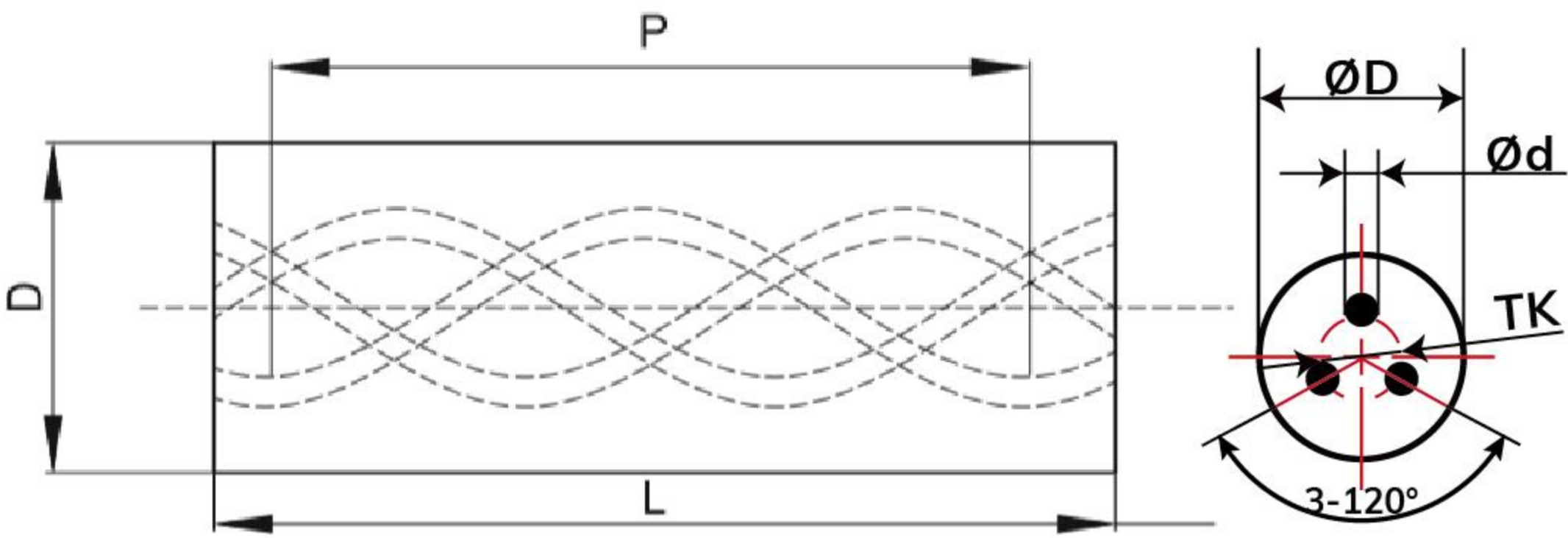


Sizes in mm.

D	D h5/h6	d	TK	Pitch
6.3 +0.3/+0.7	6	0.50 ±0.10	2.00 ±0.15	22.46
8.3 +0.3/+0.7	8	0.65 ±0.15	2.40 ±0.30	29.95
10.3 +0.3/+0.7	10	0.80 ±0.15	3.10 ±0.40	37.44
12.3 +0.4/+0.9	12	0.90 ±0.15	3.80 ±0.40	44.93
14.3 +0.4/+0.9	14	1.00 ±0.20	4.30 ±0.40	52.42
16.3 +0.4/+0.9	16	1.20 ±0.20	5.10 ±0.40	59.90
18.3 +0.4/+1.0	18	1.40 ±0.25	5.90 ±0.40	67.39
20.3 +0.4/+1.0	20	1.50 ±0.25	6.60 ±0.50	74.88
22.3 +0.4/+1.0	22	1.70 ±0.25	7.20 ±0.50	82.35
25.3 +0.4/+1.0	25	1.75 ±0.25	7.60 ±0.50	93.58

Various sizes and grades available, per customer request

3 COOLANT HOLES, 30°HELIX



Sizes in mm.

D	D h5/h6	d	TK	Pitch
6.3 +0.3/+0.7	6	0.50 ±0.10	2.75 ±0.20	32.65
8.3 +0.3/+0.7	8	0.70 ±0.15	3.85 ±0.20	43.53
10.3 +0.3/+0.7	10	0.85 ±0.15	4.95 ±0.30	54.41
12.3 +0.4/+0.9	12	1.10 ±0.15	6.05 ±0.40	65.30
14.3 +0.4/+0.9	14	1.40 ±0.20	7.05 ±0.40	76.18
16.3 +0.4/+0.9	16	1.60 ±0.20	8.05 ±0.40	87.06
18.3 +0.4/+1.0	18	1.70 ±0.25	9.25 ±0.50	97.95
20.3 +0.4/+1.0	20	1.90 ±0.25	9.85 ±0.50	108.83

Various sizes and grades available, per customer request

CARBIDE STANDARD UNGROUND
BLANKS(STB)



Sizes in inch.

Blank Style	Dimensions	Blank Style	Dimensions	Blank Style	Dimensions
STB13	3/64 × 3/32 × 1	STB328	3/32 × 7/8 × 6	STB420	1/8 × 5/8 × 6
STB13A	3/64 × 3/32 × 13/16	STB332	3/32 × 1 × 6	STB424	1/8 × 3/4 × 6
STB14	5/64 × 1/8 × 1-1/8	STB336	3/32 × 1-1/8 × 6	STB428	1/8 × 7/8 × 6
STB206	1/16 × 3/16 × 6	STB34	3/32 × 1/8 × 5	STB432	1/8 × 1 × 6
STB208	1/16 × 1/4 × 6	STB340	3/32 × 1-1/4 × 6	STB436	1/8 × 1-1/8 × 6
STB210	1/16 × 5/16 × 6	STB348	3/32 × 1-1/2 × 6	STB440	1/8 × 1-1/4 × 6
STB212	1/16 × 3/8 × 6	STB34A	3/32 × 1/8 × 1	STB448	1/8 × 1-1/2 × 6
STB216	1/16 × 1/2 × 6	STB36	3/32 × 3/16 × 1-1/8	STB46	1/8 × 3/16 × 6
STB220	1/16 × 5/8 × 6	STB36A	3/32 × 3/16 × 1-1/4	STB48A	1/8 × 1/4 × 1
STB224	1/16 × 3/4 × 6	STB36B	3/32 × 3/16 × 1	STB48B	1/8 × 1/4 × 1-1/4
STB228	1/16 × 7/8 × 6	STB38A	3/32 × 1/4 × 1	STB48C	1/8 × 1/4 × 2-1/4
STB24A	1/16 × 1/8 × 1	STB38B	3/32 × 1/4 × 1-1/2	STB48D	1/8 × 1/4 × 3
STB24B	1/16 × 1/8 × 3	STB38D	3/32 × 1/4 × 5	STB48E	1/8 × 1/4 × 6
STB24C	1/16 × 1/8 × 1-1/4	STB406	1/8 × 3/16 × 6	STB510	5/32 × 5/16 × 6
STB24E	1/16 × 1/8 × 3/4	STB408	1/8 × 1/4 × 6	STB512	5/32 × 3/8 × 6
STB26A	1/16 × 3/16 × 1	STB410	1/8 × 5/16 × 6	STB516	5/32 × 1/2 × 6
STB26C	1/16 × 3/16 × 3	STB410A	1/8 × 5/16 × 1-1/2	STB520	5/32 × 5/8 × 6
STB28A	1/16 × 1/4 × 1	STB410B	1/8 × 5/16 × 3	STB524	5/32 × 3/4 × 6
STB28B	1/16 × 1/4 × 1-1/4	STB410C	1/8 × 5/16 × 2-1/2	STB528	5/32 × 7/8 × 6
STB28D	1/16 × 1/4 × 3	STB412	1/8 × 3/8 × 6	STB532	5/32 × 1 × 6
STB310	3/32 × 5/16 × 3	STB412A	1/8 × 3/8 × 2	STB536	5/32 × 1-1/8 × 6
STB310A	3/32 × 5/16 × 2	STB412B	1/8 × 3/8 × 3	STB540	5/32 × 1-1/4 × 6
STB310B	3/32 × 5/16 × 3	STB412C	1/8 × 3/8 × 6	STB610	3/16 × 5/16 × 6
STB310C	3/32 × 5/16 × 5	STB412D	1/8 × 3/8 × 1	STB610A	3/16 × 5/16 × 3
STB312	3/32 × 3/8 × 5	STB416	1/8 × 1/2 × 6	STB612	3/16 × 3/8 × 6
STB312W	3/32 × 3/8 × 6	STB416A	1/8 × 1/2 × 1	STB612A	3/16 × 3/8 × 3
STB316	3/32 × 1/2 × 6	STB416B	1/8 × 1/2 × 1-1/2	STB616	3/16 × 1/2 × 6
STB320	3/32 × 5/8 × 6	STB416C	1/8 × 1/2 × 3	STB616A	3/16 × 1/2 × 3
STB324	3/32 × 3/4 × 6	STB416D	1/8 × 1/2 × 2-1/2		

Various sizes and grades available, per customer request