

Bel Air Ceramic Preformed Media

— DESCRIPTION OF COMPOSITIONS —

Bel Air STANDARD COMPOSITIONS

A3 Coloring Abrasive. Porcelain, ideal for burnishing or accelerated chemical deburring. An extremely heavy, high density, durable media that can replace steel media for burnishing. Increased weight decreases time cycle in an acid process deburring and all tumbling operations. Principally used in burnishing and polishing applications, can also be used for light burr removal, radius formation, and is an effective driver for loose abrasives in cut and color operations. A3's hardness, toughness and fine crystalline structure make it one of the best products available for developing lustrous, high color burnish on all types of ferrous metals, brass, and aluminum, used with

A Preformed version of A3; it has the exact finishing characteristics A3 is known to provide. Ideal for the development of a high color burnish, light burr removal, radius formation, and driving loose abrasives. (140 lbs./ cubic ft.)

A+ An extremely hard, fine grained, abrasive-free ceramic media. Most common applications for A+ include: burnishing (with proper compound), polishing, light deburring, and drive loose abrasives. It is a proven choice for use in chemically accelerated processes due to its exceptional impact resistance. (85 lbs./cubic ft.)

B An aluminum oxide based ceramic media that is versatile for general purpose and mildly abrasive mass finishing. This media can offer a low wear rate with a reasonable metal removal rate. Typically used for mild deburring on metals and plastics, and for burnishing (with proper compound). It can also be used in place of plastic media for parts that are to be anodized or can be used on parts **prior to brazing**. (85 lbs./ cubic ft.)

C A fine grain aluminum oxide based ceramic media product that provides a smooth finish while still allowing for fast metal removal with medium wear. Used in high performance cutting, deburring, and surface improvement. It produces a fine finish on all softer metals including aluminum die castings. (95 lbs./ cubic ft.)

D An aluminum oxide based ceramic media that offers efficient and fast-cutting capabilities. This bonding formulation utilizes a high concentration of aluminum oxide blends which results in a low media wear rate. It can be used in all types of mass finishing equipment and has excellent wear characteristics, even when used in **high energy machines**. For use on all metals where fast stock removal is required. (100 lbs./cubic

D+ An extremely fast cutting, aluminum oxide based ceramic media that provides a fine finish with maximum metal removal in a minimal amount of time. Used for all metals where fast stock removal is required. It can also be used for radiusing,

Bel Air HIGH DENSITY COMPOSITIONS

B-HD A high density abrasive free media utilizing a similar composition to our A3. Ideal for chemically accelerated processes, it is available in preforms for applications where size and shape are critical. It is an excellent choice for low surface finished, burnishing or as a driver, or for loose abrasive. (120

C-HD An aggressive, aluminum oxide based formula that creates a high density and low wear characteristics in applications where chemical accelerants are not used. Typically used on tough aerospace alloys such as titanium because of its excellent metal cut. (120-150 lbs./cubic ft.)

D-HD An aluminum oxide based ceramic media that is tough, fast cutting, longer wearing, and efficient media with high density. An aggressive media known for quick metal removal and best applied where short cycle times are required. It is typically used in large vibratory applications and **high energy** equipment. (110 lbs./cubic ft.)

Bel Air SILICON CARBIDE COMPOSITIONS

E A finely graded silicon carbide based ceramic media that is relatively fast wearing and fast cutting. Especially suited for materials to be **welded, brazed, or soldered** where exposure to fused aluminum oxide can not be tolerated. (85 lbs./cubic ft.)

E+ Uses a proprietary fused zirconia abrasive specially formulated for maximum cutting ability. The harder alloy, the more it separates itself from standard products. It also has very low attrition rate for a media this aggressive. Also used for materials to be welded, brazed or soldered. (105 lbs./cubic ft.)

GRINDING AND DEBURRING CHARACTERISTICS

	MILDEST	MILD	MEDIUM	FAST	FASTEST
	A3	A+	C	D	D+
Preformed Ceramic Media Composition	A	B	C-HD	D-HD	E+
		B-HD		E	


Media wear rates range from 0-7%/hr

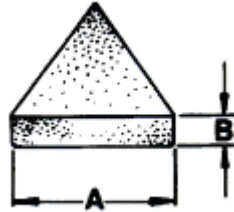
BURNISHING & POLISHING

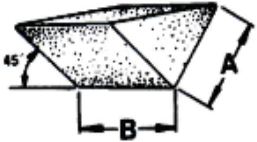
	FAIR	GOOD	BETTER	BEST
	D+	C	B	A+
Preformed Ceramic Media Composition	E+	E	B-HD	A
	D	C-HD		A3
	D-HD			




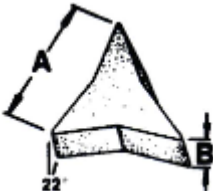
TUMBLING MEDIA

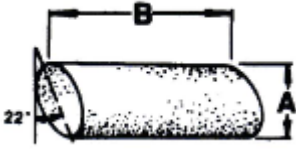
22-25° ANGLE CUT TRIANGLES	SIZE IN INCHES	SIZE IN MM	
	A B	A B	
Bel Air 22-25° ANGLE CUT TRIANGLES provide uniform, effective finishing action. This media retains its basic shape throughout usage. Triangles are most effective on flat even surfaces where they provide a maximum amount of surface contact. The angled sides provide better penetration into corners	1-7/8 x 5/8	47.6 x 16	
	1-1/2 x 1/2	38 x 12.7	
	1-3/8 x 7/16	35 x 11	
	1-1/8 x 1	28.6 x 25.4	
	1-1/8 x 3/8	28.6 x 9.5	
	15/16 x 3/4 x 3/8	24 x 19 x 9.5	
	7/8 x 7/8	22.2 x 22.2	
	7/8 x 3/8	22.2 x 9.5	
	7/8 x 1/4	22.2 x 6.4	
	5/8 x 5/8	16 x 16	
	5/8 x 1/2 x 5/16	16 x 12.7 x 7.39	
	5/8 x 1/4	16 x 6.4	
	5/8 x 3/16	16 x 4.8	
	3/8 x 3/8	9.5 x 9.5	
	3/8 x 1/4	9.5 x 6.4	
3/8 x 3/16	9.5 x 4.8		

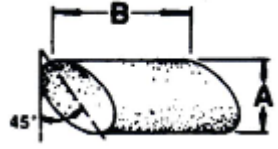
TRIANGLES, STRAIGHT CUT	SIZE IN INCHES	SIZE IN MM	
	A B	A B	
Bel Air STRAIGHT CUT TRIANGLES provide maximum surface contact on flat surfaces. The straight shape gives a blocky action that helps maximize the cutting action.	2 x 1	50.8 x 25.4	
	2 x 2	50.8 x 50.8	
	13/16 x 13/16	20 x 20	
	9/16 x 9/16	15 x 15	
	3/8 x 3/8	10 x 10	
	1/4 x 1/4	6.4 x 6.4	
	3/16 x 1/2	4.8 x 12.7	
3/16 x 3/16	4.8 x 4.8		


45° ANGLE CUT TRIANGLES	SIZE IN INCHES	SIZE IN MM	
	A B	A B	
Bel Air 45° ANGLE CUT TRIANGLES provide a sharper angle for better penetration into remote areas. The elongated shape gives better flowing action over the parts during processing.	7/8 x 7/8	22.2 x 22.2	
	5/8 x 5/8	16 x 16	
	3/8 x 3/8	9 x 9	


22° ANGLE CUT ELLIPSE	SIZE IN INCHES	SIZE IN MM	
	A B	A B	
Bel Air 22° ELLIPTICAL SHAPED MEDIA combines the finishing action of a flat shape with the following action of a cylindrical shape. Especially effective on concave surfaces, the elliptical shape has anti-wedging characteristics that reduce or eliminate lodging problems.	1 x 7/16 x 1	26 x 26 x 11	
	3/4 x 3/8 x 1	19 x 9.5 x 26	
	9/16 x 1/4 x 7/8	14.3 x 6.4 x 22.2	
	7/16 x 3/16 x 5/8	11 x 4.8 x 16	
	5/16 x 3/16 x 1/2	7.9 x 4.8 x 12.7	

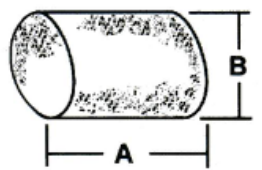
22° ANGLE CUT TRISTARS	SIZE IN INCHES		SIZE IN MM		
	A	B	A	B	
Bel Air 22° ANGLE CUT TRISTARS have the basic capabilities of a triangle, along with sharp points for reaching into remote areas. A universal application media that can deburr hard to get at areas, such as gear teeth, slots or sharp corners.	1-7/8	5/8	47.6	16	
	1-3/8	7/16	35	11	
	1-1/8	3/8	28.6	9.5	
	7/16	5/16	22.2	7.9	
	5/8	1/4	16	6.4	
	5/16	5/16	7.9	7.9	
	1/4	1/4	6.4	6.4	

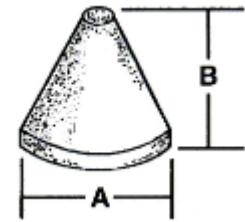
22° ANGLE CUT CYLINDERS	SIZE IN INCHES		SIZE IN MM		
	A	B	A	B	
Bel Air 22° ANGLE CUT CYLINDERS are designed to improve finishing efficiency and results. The cylindrical shape provides a flowing action maximizing results. Best for use on concave surfaces, rounded areas and holes. A durable shape for use on a wide variety of parts.	1-1/8	1-3/4	28.6	44.5	
	7/8	1-3/4	22.2	44.5	
	5/8	1-1/2	16	38	
	7/16	7/8	11	22.2	
	5/16	5/8	7.9	16	
	3/16	3/8	4.8	9.5	
	3/8	1/4	9.5	6.4	
	1/4	5/8	6.4	16	
	1/8	1/4	3	6.4	


45° ANGLE CUT CYLINDERS	SIZE IN INCHES		SIZE IN MM		
	A	B	A	B	
Bel Air 45° ANGLE CUT CYLINDERS reach recesses, holes and remote crevices with even greater penetration than the 22° angle cut cylinders. Uniform shape is maintained throughout usage.	5/8	3/4	16	19	
	1/2	5/8	12.7	16	
	3/8	5/8	9.5	16	
	5/16	5/8	7.9	16	
	1/4	5/8	6.4	16	

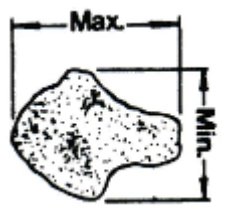
TRY-CYLS	SIZE IN INCHES		SIZE IN MM		
	A (Dia)	B	A (Dia)	B	
Bel Air TRY-CYLS are a new and versatile shape suitable for use on a wide variety of surfaces. They have cylindrical surface that mates well with concave surfaces, plus two flat surfaces that preform well on convex surfaces. TRI-CYLS combine strong points of triangles and cylinders, to penetrate into corners, slots and angles.	1-1/2	1-1/2	38	38	
	5/8	5/8	16	16	
	1/2	1/2	12.7	12.7	
	3/8	3/8	9.5	9.5	

SPHERES	SIZE IN INCHES		SIZE IN MM		
	DIAMETER		DIAMETER		
Bel Air SPHERES have a smooth rolling action enabling them to easily roll around and through parts to produce a cleaning and blending action. They will not nick or scratch parts. Spheres give good contact in rounded areas.	13/16		20.6		
	11/16		17.5		
	9/16		14.4		
	1/2		12		
	7/16		11		
	11/32		9.7		
	5/16		8		
	9/32		7		
	1/4		6		
	7/32		5.5		
	3/16		4.7		
	11/64		4		
	1/8		3		
	1/16		2		

PRECISION PINS	SIZE IN INCHES		SIZE IN MM		
	A	B	A	B	
Bel Air PRECISION PINS These very small pins, also known as straight cut cylinders, represent some of the smallest media available. The cylinder shape provides a flowing action maximizing results. Best on small parts on concave surfaces, rounded areas and holes. These pins are available in cutting and polishing compositions.	.06	x .20	1.5	x 5	
	.08	x .16	2	x 4	
	.08	x .27	2	x 7	
	.10	x .31	2.5	x 8	
	.12	x .24	3	x 6	
	.18	x .31	4.5	x 8	
	.18	x .55	4.5	x 14	
	.22	x .67	5.5	x 17	
	.27	x .90	7	x 23	

CONE	SIZE IN INCHES		SIZE IN MM		
	A	B	A	B	
Bel Air CONE Cone shape media is the most versatile shape, providing uniform and effective finishing action on all surfaces with the exception of inside corners.	3/4	x 3/4	19	x 19	
	1	x 1	25	x 25	
	1-1/4	x 1-1/4	32	x 32	
	1-9/16	x 1-9/16	40	x 40	

PRECISION TRIANGLES	SIZE IN INCHES		SIZE IN MM		
	A	B	A	B	
Bel Air PRECISION TRIANGLES These very small triangles also known as straight cut triangles represent some of the smallest media available. For better penetration into angles and maximum surface contact. Available in cutting and polishing compositions.	.24	x .24	6	x 6	
	.16	x .16	4	x 4	
	.12	x .17	3	x 3	
	.08	x .08	2	x 2	
	.12	x .24	3	x 6	
	.16	x .31	4	x 8	

RANDOM SHAPED	RANDOM		SIZE IN INCHES		SIZE IN MM		
	XA	XB	A	B	A	B	
Bel Air FORTUNE XA random shape, aluminum oxide abrasive is a fast-cutting media for use in the general finishing of ferrous metals, plastics and rubber. It combines good cut with long life, and deburrs and finishes in on operation. Recommended for parts where lodging is not a critical problem. XA is gray, 130-140 pounds per cubic foot.	00	• na	1-1/2	to 2	38	to 50.8	
	0	• na	1-1/8	to 1-1/2	28.6	to 38	
	1	• na	7/8	to 1-1/8	22.2	to 28.6	
	1-1/2	• na	11/16	to 7/8	17.5	to 22.2	
	2	• •	9/16	to 3/4	14.3	to 19	
	2-1/2	• •	1/2	to 9/16	12.7	to 14.3	
	3	• •	3/8	to 1/2	9.5	to 12.7	
	3-1/2	• •	5/16	to 3/8	7.9	to 9.5	
	4	• •	7/32	to 5/16	5.5	to 7.9	
	5	• •	3/16	to 1/4	4.8	to 6.4	
	6	• •	1/8	to 3/16	3.2	to 4.8	
	8	• •	3/32	to 1/8	2.4	to 3.2	
Bel Air FORTUNE XB random shape, extra tough, aluminum oxide abrasive is designed for the finishing and burnishing of ferrous and non-ferrous metals. It's unique coloring abrasive, extremely durable, which makes it ideal for light burr removal, radius formation and surface refinements. Imparts high luster finishes on practically all types of metals. Close sizing minimizes wedging in work pieces. XB is brown, 130-140 pounds per cubic foot	10-20	•	Normal mesh sizing				
	20-240	•	Normal mesh sizing				