

Bel Air Plastic & Synthetic Preformed Media

— DESCRIPTION OF COMPOSITIONS —

Bel Air LOW DENSITY PREFORMED MEDIA

Manufactured to our own formulated specifications, containing only the finest raw materials available. Low density media is used within the metal industry for surface preparation and improvement on most metals such as aluminum, brass, copper, and zinc as well as plastic. Low density media will reduce distortion, impingement and burr roll-over while producing excellent finishes prior to plating and or painting. Fine finishes as well as aggressive cutting can be achieved.

R-400 An extremely long wearing media with very little abrasion specially formulated for precious metal burnishing. Weighs approximately 60lbs per cubic foot. The color is white.

R-500 An extremely long wearing media specifically formulated for fine finishing of non-ferrous metals. This media will provide excellent pre plate surfaces on zinc and aluminum parts. Weighs approximately 60lbs per cubic foot. Color is natural. *Special Order Only

R-600 A lightweight, long wearing media. Excellent for pre plate finishing. Provides very low micro-inch surfaces on most metals. Weighs approximately 65lbs per cubic foot. Color is green. PH7

R-650 A light to medium cutting media. Provides excellent pre-paint finishes on plastic and achieves good pre-plate finishes on most metals. Weighs approximately 65lbs per cubic foot. Color is beige. PH7

R-700 An all-around general purpose media with good cutting and wear rate qualities. This media contains fine abrasives to allow faster cutting time cycles while still maintaining a high finish standard. For use on ferrous and non-ferrous components. Weighs approximately 65lbs per cubic foot. Color is red. PH7

R-800 A blend of coarser abrasives to provide faster burr removal while maintaining a good finish and reasonable wear rate. For use on most metals. Weighs approximately 65lbs per cubic foot. Color is blue. PH7

R-900 A fast-cutting media containing aluminum oxide abrasive. To be used where heavy cut down and surface blending is required but higher wear-rate is not a factor. Weighs approximately 75lbs per cubic foot. Color is brown. PH7

R-1250 A fast cutting media composed of a blend of coarser abrasives. To be used for rapid cut-down when aluminum oxide impregnation cannot be tolerated and a fine surface finish is not required. Weighs approximately 70lbs per cubic foot. Color is black. PH7 *Special Order Only

Bel Air HIGH DENSITY PREFORMED MEDIA

A completely NEW AND IMPROVED line of fast cutting polyester media, designed and formulated to provide a wider range of surface finishes. It contains agents that improve overall performance considerably which are technically superior to resin bonded media and urea formaldehyde media. Our new and improved media also has an average bulk density of 100lbs per cubic foot. This represents over 35% higher density than standard plastic media and 20% higher density than most ceramic media. It has been designed to reduce standard plastic media process time by 50% while improving surface finish, without additional cost. It will also cut as fast as ceramic most ceramic media but will produce a superior surface finish without hardening the metal surface. When used with proper water and compound flow rate, our new media reduces foaming and allows faster settlement of solids. It will produce a clean, surface finish on ferrous, non-ferrous, or plastic components. It will not fragment and is currently available in more than thirty shapes and sizes.

R-1000 HD Designated to greatly reduce cycle times while producing a superlative pre-plate finish and very low R.M.S. surface finish. An extremely clean media during and after processing.

Formulated with zircon abrasives for fine finishing of all ferrous, non-ferrous, and plastic components. Weighs approximately 95lbs per cubic foot. The color is tan.

R-4000 HD Designated for low Ra finishing, especially aerospace turbine and compressor blades. This media is very clean in process and can be used on all metals and plastic components. Weighs approximately 95lbs per cubic foot. The color is Ivory. PH7

R-3000 HD Designed for use on components such as stainless steel, forgings, and titanium. It is also suitable for use on most base metals, plastics, and produces a very low R.M.S. finish. Weighs approximately 100lbs per cubic foot. The color is Blue. PH7

R-2000 HD Designed as an extremely fast cutting media suitable for all materials. It produces low R.M.S. surface and superior pre-plate finishes. It contains no aluminum oxide and should be used when the wear rate is not a prime factor. Weighs approximately 100lbs per cubic foot. The color is gray. PH7

Bel Air SYNTHETIC PREFORMED MEDIA

Synthetic Media is a blend of urea formaldehyde resin and abrasives. It is acidic with a PH3. If running non-ferrous metals, correct compounding is required to eliminate corrosion. Very clean non-foaming, non-surface residue. Good for pre-plate finish and a very low Ra surface can be obtained. Recommended for high energy processing and finishing of delicate parts.

RUF-6 A light cutting, long lasting media which contains microcrystalline silica abrasives which are ideal for pro-plate finishing. This media is long wearing for urea formaldehyde. Provides light color. Weighs approximately 60lbs per cubic foot. The color is light green. PH3

RUF-7 A medium-cutting urea formaldehyde media. Provides a low Ra finish with a good cutting ability on all metals and plastics. Weighs approximately 65lbs per cubic foot. The color is pink. PH3

RUF-8 A fast-cutting, long-wearing urea formaldehyde media that's is slightly more aggressive than RUF-7. Ideal for deburring and surface improvement. Weighs approximately 70lbs per cubic foot. The color is blue. PH3

CUTTING AND DEBURRING

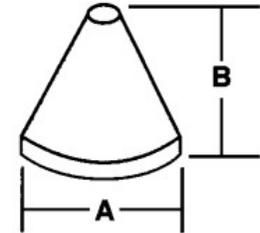
	MILDEST	MILD	MEDIUM	FAST
Preformed	*R-400	R-600	R-700	R-900
Plastic	R-500	RUF-7	R-800	R-2000
Media	RUF-6	R-4000	RUF-8	R-3000
Composition				

FINISHING CHARACTERISTICS

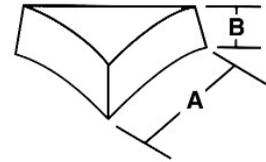
	FAIR	GOOD	BETTER	BEST
Preformed	*R1250	R-800	R-700	R-400
Plastic	R-900	RUF-8	RUF-7	*R-500
Media		R-2000	R-1000	R-600
Composition		R-3000	R-4000	RUF-6

Plastic Preformed Media

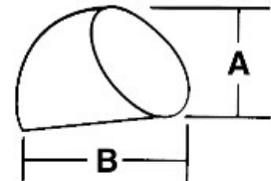
CONE	SIZE IN INCHES	
	A	B
<p>Bel Air CONE shape media is the most versatile shape, providing uniform and effective finishing action on all surfaces with the exception of corners.</p>	5/16	3/8
	3/8	3/8
	1/2	9/16
	3/4	3/4
	1	1
	1-1/4	1-1/4
	1-1/4	1-1/2
	1-1/2	1-1/2
	1-3/4	1-3/4
	2	2
	2	2-1/2
2-1/2	2-1/2	



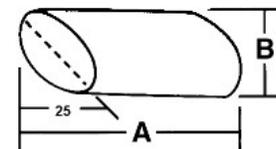
TRISTARS	SIZE IN INCHES	
	A	B
<p>Bel Air ANGLE CUT TRISTARS have the basic capabilities of a triangle, along with sharp points for reaching into remote areas. A universal application media that can deburr hard to get at areas, such as gear teeth, slots or sharp corners.</p>	1-3/8	1/2
	1-3/4	3/4
	2	3/4



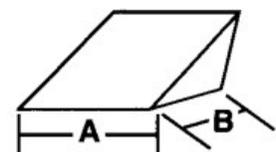
TRI-CYLS	SIZE IN INCHES	
	A	B
<p>Bel Air TRI-CYLS are a new and versatile shape suitable for use on a wide variety of surfaces. They have a cylindrical surface that mates well with concave surfaces, plus two flat surfaces that perform well on convex surfaces. TRI-CYLS combine strong points of triangles and cylinders, to penetrate into corners, slots and angles.</p>	3/8	3/8
	1-1/4	1-1/4
	1-1/2	1-1/2



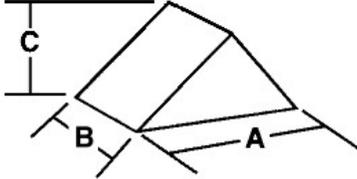
25° ANGLE CUT CYLINDERS	SIZE IN INCHES	
	A	B
<p>Bel Air 25° ANGLE CUT CYLINDERS are designed to improve finishing efficiency and results. The cylindrical shape provides a flowing action maximizing results. Best for use on concave surfaces, rounded areas, and holes. A durable shape for use on a wide variety of parts</p>	1	9/16

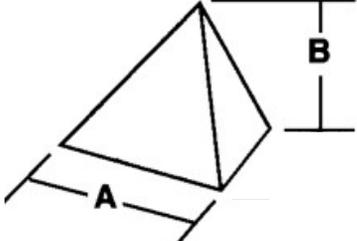


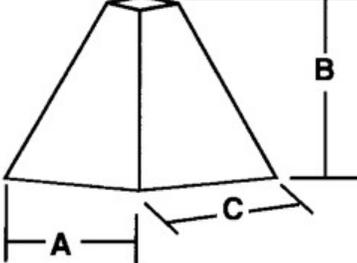
45° ANGLE CUT TRIANGLES	SIZE IN INCHES	
	A	B
<p>Bel Air 45° ANGLE CUT TRIANGLE provide a sharper angle for penetration into remote areas. The elongated shape gives better flowing action over the parts during processing.</p>	1	1-1/8

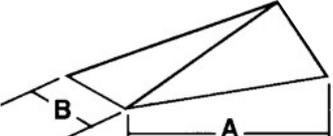


Plastic Preformed Media

TRIANGLES, STRAIGHT CUT	SIZE IN INCHES			
	A	B	C	
Bel Air STRAIGHT CUT TRIANGLES provide maximum surface contact on flat surfaces. The straight shape gives a blocky action that helps maximize cutting action and penetrate into corners.	1/4	1/4	1/4	
	3/8	3/8	1/4	
	5/8	1/2	3/8	
	11/16	7/16	5/8	
	1	5/8	9/16	
	1-1/4	5/8	5/8	
	1-3/4	1-1/4	1-1/4	
	2-1/2	2-1/2	2-1/2	

TETRAHEDRON	SIZE IN INCHES		
	A	B	
Bel Air TETRAHEDRON combines the finishing action of a cone and a triangle. It is effective for parts with inside angles.	3/4	3/4	
	7/8	1/2	
	1-1/8	1-1/8	
	1-1/4	1-1/4	
	1-3/8	1-3/8	

PYRAMIDS	SIZE IN INCHES			
	A	B	C	
Bel Air PYRAMIDS provides multiple angles for effective finishing of parts with ridges and corners. The basic finish geometry of a cone shape with edges 1/4" size comes to a point on top.	1/4	1/4	1/4	
	3/8	5/8	3/8	
	3/4	1-1/2	3/4	
	1	1-5/8	1	
	1-7/8	2	1-7/8	

WEDGES	SIZE IN INCHES		
	A	B	
Bel Air WEDGES shape media otherwise known as BOWTIE shape gives the finishing action of a triangle but is effective when other shapes get lodged into parts.	1	3/4	
	1-5/8	1	
	2	1-1/4	

Bel Air Masterbrite Compounds

— VIBRATORY AND BARREL FINISHING COMPOUNDS

— ULTRASONIC CLEANER SOLUTIONS —

FUNCTIONS OF MASTERBRITE COMPOUNDS

To keep pieces and media clean.

To suspend metals in solution.

To lubricate and cushion work pieces from media.

To brighten or protect from corrosion.

Compound	Material to Finish	Description
MB #4A	All Metals & Plastics	Liquid, general purpose. Develops natural color on casting and produces clear brilliant look. Excellent for cut-down of any material using ceramic or plastic media. 2-4 oz. per gallon. Contains light rust inhibitors.
MB #4	All Metals & Plastics	Liquid, general purpose. Develops natural color on castings and produces clear, brilliant look. Conditions water and suspend soil. Excellent cut-down of any material using ceramic or plastic media. 2-4 oz. per gallon.
MB#4 X	All Metals & Plastics	Same as above with low-foam formula. 2-4 oz. per gallon.
MB#56	Stainless Steel, Steel, Bronze, Brass, Copper, Sterling	Liquid, ball burnishing compound for superior brightness on most metals. Excellent in combination with steel and porcelain type medias. 1-2 oz. per gallon.
MB #58	All Metals and Plastics	Liquid. Excellent for refinishing of steel shot media. Use for the deburring of steel and stainless steel pieces. 2-4 oz. per gallon.
MB #62	All Materials	Powder. Suitable for all materials. Use for steel ball burnishing. Also suitable for tumbling operations.
MB #82	All Metals	Jewelry ultrasonic cleaner. Alkaline cleaner for all metals including; gold, silver, platinum. Excellent for cleaning polishing compounds. Operating conditions: 2-10% by volume, 130-190 F.
MB #83	All Metals	Industrial ultrasonic cleaner. Excellent for ultrasonic cleaning applications. Removes moderate oil and soils. Operations conditions: 2-8% concentrations, 140-190 F, 2-6 minute soak time.
MB #84	All Metals	Liquid, general purpose with Rust Inhibitor. Conditions the water and suspends soils with the added benefit of rust inhibitors. 4 oz. per gallon
MB #85X	Ferrous Metals	Liquid, rust preventative. Used in tumbling and vibratory systems as a final rise. Odorless, non-foaming, transparent. Great for final dip of parts. Good for steel shot storage. Flow-thru mix: 2-4 oz. per gallon. Dipping: 32 oz. per gallon.
MB #104	Aluminum, Brass	Liquid, aluminum and titanium burnishing & cleaning. Removes oils and leaves bright polished surface. Also removes oxides from brass and copper. Use in soak tank or finishing applications. 2-4 oz. per gallon.
MB - DEFOAM	All Materials	Liquid, defoaming agent. Use 1 quart per 200 gallons water. Add more for difficult situations. For smaller applications, add liberally using spray bottle.