



DURAMEDIA® Steel

ANOTHER PRODUCT FINISHING ADVANTAGE
from Washington Mills/Wisconsin Porcelain:

CERAMIC, PORCELAIN, PLASTIC AND STEEL FINISHING MEDIA



“Your single source
supplier for all of your
finishing media.”

Steel media produces a burr-free, bright, smooth surface.

Steel media's weight and mass exert added pressure to a mass of components in vibratory and barrel finishing equipment. You will experience reduced finishing times, too, as workpieces vibrate through this mass, the pressure and increased resistance from steel media is especially effective.

DURAMEDIA® Steel is a non-consumable media. Its durability and increased working pressure make steel the ideal media for a variety of finishes.

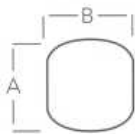
Parts processed with steel media have longer cycle lives and greater resistance to wear as a result of compressive stress action, a beneficial byproduct of the finishing.

SHAPES AND SIZES



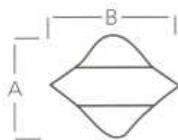
ROUND (BALLS): Specified for critical applications only. Manufactured to the nominal diameter dimension with no visual surface irregularities.

ROUND BALL	ORDER SIZE	A
	1/8	.125
	THRU 1	THRU 1.000



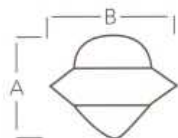
BARREL: The most common ball-type media. Slight, often microscopic surface imperfections may exist, which have no detrimental effects.

BARREL	ORDER SIZE	A	B
	1/4	.250	.235
	9/32	.2812	.253
	5/16	.3125	.275
	11/32	.3437	.309
	3/8	.375	.344
1/2	.500	.450	



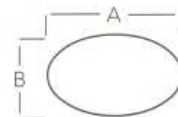
CONES: Very popular for vibratory finishing applications requiring aggressive action. Center flange and tapered crowns provide contact angles on curved surfaces. Small sizes are ideal for intricate or ornamental designs.

CONES	ORDER SIZE	A	B
	3/16	.155	.200
	5/16	.265	.315
	1/2	.470	.535
	25/32	.630	.781



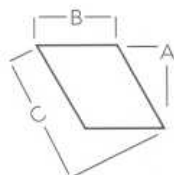
BALL CONES: The burnishing capabilities of balls and cones in one scientifically proportioned shape. See dimensional specifications chart for configuration.

BALL CONE	ORDER SIZE	A	B
	1/8	.125	.170
	5/32	.215	.270
	3/16	.270	.300
	1/4	.320	.400
5/16	.375	.465	



OVAL BALLS: Used for vibratory finishing and barrel tumbling operations when a scratch and dimple-free finish is required. This shape introduces an oscillating motion to the finishing mass and provides more surface-to-surface contact than balls.

OVAL BALL	ORDER SIZE	A	B
	1/8	.245	.125
	5/32	.320	.156
	3/16	.380	.187
	5/16	.535	.312
3/8	.630	.375	



DIAGONALS: Particularly suited to odd shapes where lodging might be a problem or for parts with hard to reach angles. Beveled edges of diagonally cut ends provide effective finishing action in corners. The cylindrical body offers wide area contact.

DIAGONALS	ORDER SIZE	A	B	C
	1/8	.125	.125	.225
	5/32	.156	.156	.275
	3/16	.187	.187	.325
	7/32	.218	.218	.380
	1/4	.250	.250	.445
	5/16	.312	.312	.545
	3/8	.375	.375	.655

Products available from our Sun Prairie, Wisconsin facility.

Made in the U.S.A.

165 KING STREET, PO BOX 89
SUN PRAIRIE, WI 53590

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CERAMIC, PORCELAIN, PLASTIC AND STEEL FINISHING MEDIA

DURAMEDIA® Steel

is made from low-carbon steel in AISI/SAE. The most commonly used chemistry is 1013, with steel media also manufactured in chemistries 1008 – 1022.

TYPICAL CHEMISTRIES:

	1008	1013	1018	1022
Carbon	0.10 max.	0.11-0.16	0.15-0.20	0.18-0.23
Manganese	.030-0.50	0.50-0.80	0.60-0.90	0.70-1.00
Sulfur	0.050 max	0.050 max	0.050 max	0.050 max
Phosphorous	0.030 max	0.030 max	0.030 max	0.030 max



When complete freedom from rust is essential, we recommend corrosion-resistant Stainless Steel.

USES FOR STAINLESS STEEL MEDIA:

- **For Aggressive Processes...** dramatically cut finishing times by using more acidic compounds, specifically developed for use with stainless steel.
- **Eliminating or Reducing Compounds...** with stainless steel's inherent ability to resist corrosion.
- **To Reduce Maintenance, Storage and Handling Costs...** compared to carbon steel media.
- **To Eliminate Contamination...** from chemical interactions (i.e., iron impregnation) that take place during some finishing processes. Especially important to manufacturers of medical equipment, surgical tools, food processing equipment and similar materials.

For information regarding DURAMEDIA® Steel, contact your local distributor, or e-mail your questions to ceramicsales@washingtomillsceramics.com or call 508-839-5208.

DURAMEDIA® Steel Available Sizes

Shape	Size	Part Number	Description
Balls	1/8"	8091 1250	DURAMEDIA® Steel - Balls 1/8"
	5/32"	8091 1562	DURAMEDIA® Steel - Balls 5/32"
	3/16"	8091 1875	DURAMEDIA® Steel - Balls 3/16"
	1/4"	8091 2500	DURAMEDIA® Steel - Balls 1/4"
Ball Cones	1/8"	8092 1250	DURAMEDIA® Steel - Ball Cones 1/8"
	5/32"	8092 1562	DURAMEDIA® Steel - Ball Cones 5/32"
	3/16"	8092 1875	DURAMEDIA® Steel - Ball Cones 3/16"
	1/4"	8092 2500	DURAMEDIA® Steel - Ball Cones 1/4"
Cones	5/16"	8092 3125	DURAMEDIA® Steel - Ball Cones 5/16"
	3/16"	8093 1875	DURAMEDIA® Steel - Cones 3/16"
	5/16"	8093 3125	DURAMEDIA® Steel - Cones 5/16"
	1/2"	8093 5000	DURAMEDIA® Steel - Cones 1/2"
Diagonals	25/32"	8093 7812	DURAMEDIA® Steel - Cones 25/32"
	3/32"	8094 0937	DURAMEDIA® Steel - Diagonals 3/32"
	1/8"	8094 1250	DURAMEDIA® Steel - Diagonals 1/8"
	5/32"	8094 1562	DURAMEDIA® Steel - Diagonals 5/32"
	3/16"	8094 1875	DURAMEDIA® Steel - Diagonals 3/16"
	7/32"	8094 2187	DURAMEDIA® Steel - Diagonals 7/32"
	1/4"	8094 2500	DURAMEDIA® Steel - Diagonals 1/4"
Oval Balls	5/16"	8094 3125	DURAMEDIA® Steel - Diagonals 5/16"
	3/8"	8094 3750	DURAMEDIA® Steel - Diagonals 3/8"
	1/8"	8095 1250	DURAMEDIA® Steel - Oval Balls 1/8"
	5/32"	8095 1562	DURAMEDIA® Steel - Oval Balls 5/32"
	3/16"	8095 1875	DURAMEDIA® Steel - Oval Balls 3/16"
Barrels	1/4"	8095 2500	DURAMEDIA® Steel - Oval Balls 1/4"
	5/16"	8095 3125	DURAMEDIA® Steel - Oval Balls 5/16"
	9/32"	8097 2500	DURAMEDIA® Steel - Barrels 1/4"
	5/16"	8097 2812	DURAMEDIA® Steel - Barrels 9/32"
	11/32"	8097 3437	DURAMEDIA® Steel - Barrels 11/32"
	3/8"	8097 3750	DURAMEDIA® Steel - Barrels 3/8"
	1/2"	8097 5000	DURAMEDIA® Steel - Barrels 1/2"

WASHINGTON MILLS
WISCONSIN PORCELAIN
CERAMIC COMPANIES

“Your single source supplier for all of your finishing media.”