

Potters Metal Finishing Glass Beads

POTTERS IS A WORLD LEADER, WITH OVER 100 YEARS OF EXPERIENCE IN MANUFACTURING GLASS BEADS.

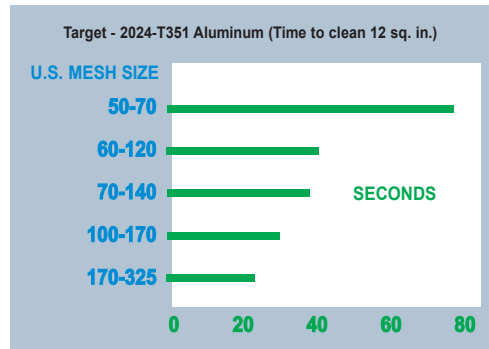
For Cleaning, Finishing, and Peening of Metal Parts and Surfaces

- Impart a controlled, clean finish on a variety of metals
- Clean quickly without significant metal removal
- Provide a unique surface finish
- Survives multiple process cycles
- Contains no free silica
- Environmentally safe
- Backed by Potters Technical Support
- Meets both Mil and AMS Specs For Heavy Metal Limits

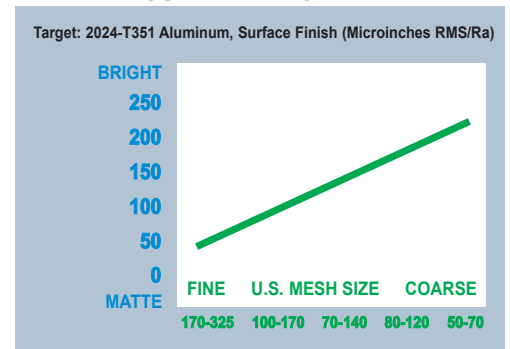
Glass Bead Media

- Are consumed at a slow rate and can survive multiple impacts and application cycles.
- Are chemically inert and will not leave ferrous or other undesirable residues on the surface of the workpiece.
- Impart a controlled, clean finish on a variety of metals.
- Clean quickly without significant metal removal.

SPEED OF CLEANING



SURFACE PROFILE



Typical Applications

CLEANING

- Cleans/preps surface of metal parts without changing tolerances, or imparting ferrous contaminants.
- Combines cleaning, finishing and peening in one operation.

FINISHING

- Creates a wide range of unique surface finishes that are easy to reproduce.
- Blends machine marks, seals pores and the results offer the advantages of glass bead peening.

PEENING

- Reduces the tensile stress in metal parts, increasing the fatigue limit.
- Reduces stress corrosion cracking.

Glass Bead Facts

COARSE BEADS

■ Remove larger, tougher soils; Peen to more intense levels; Peen to deeper zones in surface; Produce higher surface RA; Produce brighter surface; Consume faster at same pressure as fine beads; In practice, may consume slower than fine beads.

FINE BEADS

■ Remove smaller, lighter soil; More impacts per pound; Clean faster; Peen to less intense levels; Peen outer zones of surfaces; Reach into keyways, filletes and small areas; Produce lower surface RA; Produce matte finish; Consume slower at same pressure as coarse beads; In practice, may consume faster than coarse beads.

ALL BEADS

■ Contains no free silica (environmentally friendly); Recycle many times; Clean efficiently at 45°- 60° nozzle angle.

Bead size, shape of the workpiece, angle of the nozzle, distance of the nozzle to the surface area, air pressure, and the type of delivery system (suction versus direct pressure blast) are factors affecting final surface appearance and media consumption parameters.

Potters Designation	U.S. Sieve	Nominal Diameter				Min % Round	
		Inches		Microns			
		Max	Min	Max	Min		
BALLOTINI® PROPERTIES	A	20-30	.0331	.0234	850	600	65
	AAA	25-45	.0278	.0139	710	355	65
	B	30-40	.0234	.0165	600	425	65
	C	40-60	.0165	.0098	425	250	75
	AA	40-70	.0165	.0083	425	212	70
	D	50-70	.0117	.0083	300	212	75
	AB	50-80	.0117	.0070	300	180	70
	AC	60-120	.0098	.0049	250	125	80
	AD	70-140	.0083	.0041	212	106	80
	AE	100-170	.0059	.0035	150	90	85
	AG	120-270	.0049	.0021	125	53	85
	AH	170-325	.0035	.0017	90	45	85

Potters Designation	U.S. Sieve	Nominal Diameter				Min % Round	
		Inches		Microns			
		Max	Min	Max	Min		
MIL SPEC PRF-9954D	3	20-30	.0331	.0234	850	600	65
	4	30-40	.0234	.0165	600	425	70
	5	40-50	.0165	.0117	425	300	70
	6	50-70	.0117	.0083	300	212	80
	7	60-80	.0098	.0070	250	180	80
	8	70-100	.0083	.0059	212	150	80
	9	80-120	.0070	.0049	180	125	80
	10	100-170	.0059	.0035	150	90	90
	11	120-200	.0049	.0029	125	75	90
	12	140-230	.0041	.0025	106	63	90
	13	170-325	.0035	.0017	90	45	95

POTTERS ENVIRONMENTAL COMMITMENT

Potters respects the environment by the recycling of over one billion pounds of glass each year. Potters works closely with regulatory agencies and responsible customers around the world to ensure that we provide glass beads that don't harm employees, contaminate water supplies or land around roadways. We have set our own strict standards and voluntarily perform XRF analysis and other quality control procedures on incoming raw materials to ensure our glass beads are safe and meet heavy metals limitations.

All Potters MIL SPEC Products are tested and conform to MIL-PRF-9954D. All Potters North American Plants are ISO 9001 & 14001 Certified.

CALL 1-800-55-BEADS FOR YOUR NEAREST DISTRIBUTOR
<https://www.pqcorp.com/products>

Potters Industries LLC ■ P.O. Box 841, Valley Forge, PA 19482-1041 ■ Tel: (610) 651-4700 ■ Fax: (610) 408-9723

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