

AMACAST Stainless Steel Shot



AMACAST is a 300-series stainless steel shot that offers superior corrosion-resistance for specialized cleaning applications.

HIGHEST PRODUCTIVITY AND LOWEST CONSUMPTION

The AMACAST manufacturing process yields an extremely round shot particle without internal defects which increases durability, reduces abrasive consumption and lowers overall blasting costs.

UNMATCHED QUALITY AND CONSISTENCY

Highly spherical particles produced by Rapid Solidification Rate (RSR) technology allow Ervin AMACAST to outlast and outperform all other stainless steel shot abrasives.

VERSATILE APPLICATIONS

AMACAST stainless steel shot can be used for cleaning delicate or non-ferrous materials such as aluminum, zinc, brass and stainless steel, providing an exceptional surface finish.



AMACAST Stainless Steel Shot can be used on a variety of corrosion-sensitive parts to achieve the perfect surface finish.

ERVIN

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AMACAST BENEFITS

Corrosion Resistant

A 300-series stainless steel shot that offers exceptional corrosion resistance.

Cost Effective

Ervin's unique manufacturing processes create a more durable stainless steel shot with up to 5,000 or more impacts.

Environmentally Friendly

Contaminant-free and non-hazardous.

Safer to Use

During use, it is nearly dust-free for a cleaner blasting environment.

AMACAST APPLICATIONS

AMACAST is recommended where ferrous contamination must be avoided.

- Cleaning of aluminum and other non-ferrous castings and parts
- Surface finishing of stainless steel parts
- Zinc pressure die castings
- For use in blast cabinets
- Alternative for glass beads

AMACAST PRODUCT SPECIFICATIONS

Microstructure	Austenitic. Develops magnetic attraction as work hardened.
Shape	Spherical
Hardness	200 Hardness Vickers (HV) After Typical Use: 470 Hardness Vickers (HV) (approx. 47 HRC)
Density	7 gm/cc
Chemical Analysis	Chromium (metallic): 16 – 20% Nickel: 6 – 10% Silicon: < 3% Manganese: < 2%
Packaging Options	Plastic Pail: 25 lbs Fiber Drum: 500 lbs Steel Drum: 2000 lbs <i>Metric Upon Request</i>

Superior Processes Create Superior Products.

AMACAST stainless steel shot is produced using Ervin's RSR Technology (Rapid Solidification Rate).

- The extremely fast solidification rates (cooling) develop a highly spherical shot shape with more uniformity and without internal voids.
- This increases durability by 20% over other water or gas atomized techniques.
- Ervin's casting process gives the shot a bright finish and the shot is less dusty at the initial start of blasting.

U.S. SIEVE SIZE	SIEVE OPENING		AMACAST SCREENING SPECIFICATIONS				
	(in)	(mm)	ES-750	ES-600	ES-450	ES-300	ES-180
8	0.0937	2.36					
10	0.0787	2.00					
12	0.0661	1.70	All Pass				
14	0.0555	1.40					
16	0.0469	1.18	10% max	All Pass			
18	0.0394	1.00					
20	0.0331	0.850		10% max	All Pass		
25	0.0278	0.710			5% max		
30	0.0234	0.600				All Pass	
35	0.0197	0.500	95% min			5% max	
40	0.0165	0.425		95% min			All Pass
45	0.0139	0.355					
50	0.0117	0.300			95% min		10% max
60	0.0098	0.250					
70	0.0083	0.212				85% min	
80	0.0070	0.180					
120	0.0049	0.125					
140	0.0041	0.106					90% min
170	0.0035	0.090					