AMACAST

CAST STAINLESS STEEL SHOT

FROM ERVIN INDUSTRIES

Ervin Industries, Inc., Tecumseh, Michigan Plant

With a corporate vision for continuous improvement and a commitment to make strategic breakthroughs in abrasive applications, materials, and new technologies, Ervin Industries has become the world leader in the steel abrasive industry.

This commitment to meeting our customers' specialized requirements was the foundation for the Ervin Product Development Center and the introduction of AMACAST stainless steel shot. AMACAST is a 300-series stainless steel shot designed to meet your specific production requirements and is manufactured to the same stringent quality standards that have led Ervin Industries for the last seven decades. Offered in five separate size ranges, AMACAST combines unmatched recyclability and surface finish for a wide variety of special applications.

AMACAST…tailored to meet your changing needs now and into the next century.

ERVIN

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ERVIN **AMACAST**
The World's Standard for Quality

300 Series Cast Stainless Steel Shot

Chemical Analysis

Chromium 16-20%
Nickel 6-10%
Silicon .....< 3%
Manganese.....< 2%

Microstructure

Austenitic. Becomes somewhat magnetic as work hardened.

Density

The density shall be greater than 7 gm/cc.

General Appearance

The cast stainless steel shot shall be spherical in shape with a bright metallic appearance.

Hardness

Vickers Hardness Number	Rockwell Hardness Number C Scale	Rockwell Hardness Number B Scale
697	60	—
513	50	—
392	40	—
302	30	—
240	20	100
185	—	90
150	—	80

After use typical 470 HV

As produced typical 200 HV

Approximate hardness conversion numbers taken from ASTM E 140 tables 1 and 2.

Sieve opening standard (microns)	Sieve designation	Nominal sieve opening (inches)	ERVIN STAINLESS SHOT TOLERANCES				
			ES-180	ES-300	ES-450	ES-600	ES-750
1700	12	.0661	—	—	—	—	All Pass
1400	14	.0555	—	—	—	—	—
1180	16	.0469	—	—	—	All Pass	10% Max.
1000	18	.0394	—	—	—	—	—
850	20	.0331	—	—	All Pass	10% Max.	—
710	25	.0278	—	—	5% Max.	—	—
600	30	.0234	—	All Pass	—	—	—
500	35	.0197	—	5% Max.	—	—	95% Min.
425	40	.0165	All Pass	—	—	95% Min.	—
300	50	.0117	10% Max.	—	95% Min.	—	—
212	70	.0083	—	85% Min.	—	—	—
106	140	.0041	90% Min.	—	—	—	—

AMACAST cast stainless steel shot is manufactured with an uncompromising COMMITMENT TO EXCELLENCE that continues to establish ERVIN as the world leader in the abrasive Industry.