

# ERVIN STAINLESS

The World Standard for Quality







Since 2008, ERVIN STAINLESS in Germany is a part of ERVIN INDUSTRIES – a family owned industry group established in 1920 in Michigan, USA. With high market share for its brands AMACAST, AMACHROME and AMAGRIT, ERVIN Stainless is one of the world market leader for stainless steel casted shot abrasives.

# World leaders in stainless abrasives.

## Advanced production technology

From materials to machinery: High quality products start with high quality standards in every aspect of production. Over 400 employees in six production facilities across the USA and Europe work hard to achieve this goal – providing manufacturing industries around the world with an unparalleled degree of control for creating perfect surfaces in a wide range of applications.

## Advanced quality control

ERVIN STAINLESS takes pride in constantly pushing the boundaries of quality production. Statistically controlled production processes, consistent data collection and highly specialised testing methods, that have become worldwide industry standards, are the foundation of our unique quality management system. Independently certified according to ISO 9001.

## Worldwide delivery and international services

A global distribution network offers products and services close to customers – from Asia to South America. The branch office of ERVIN STAINLESS in Europe are located in Sprockhövel, Germany. A new ERVIN production facility just started production near Dresden.







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test machine  
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Voltage  
Cycle

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**Outstanding efficiency  
with AMAGRIT**

## The World Standard for Quality.

ERVIN products are known worldwide for consistent properties, reliable quality control and outstanding efficiency. Through constant optimization and examination of our processes, we strive to achieve the highest levels of customer satisfaction and product quality.

### **ERVIN Testmachine**

ERVIN's mission of setting the world standard for quality lead us to the invention of the ERVIN Testmachine – which has since become the world standard testing equipment for our industry. Even competitors have ERVIN Testmachines to test the quality of their products.

AMACAST

AMACHROME

AMAGRIT



# AMACAST – The most powerful stainless abrasive in the world.■

AMACAST is the highest quality and performance stainless blasting media – out-performing all other stainless abrasives, water or gas atomized, by a wide margin.

Typically, AMACAST premium in life and energy transmission ranges from 20 to 60 percent. AMACAST performs particularly well in technical applications requiring a quality finish with strict cost control.

## **World leading production process for AMACAST**

AMACAST is produced with an advanced technology developed in the aerospace defence sector – which is unique in the abrasives industry.

It is atomized in a controlled atmosphere in a dedicated plant, a fully computerised operation that allows for constant monitoring of all parameters: atmosphere content, flow, speed, size, cooling cycle, shape, and many others. The outcome of this process is a particularly strong austenitic micro structure, with an outstanding bond of molecules in perfectly regular clusters. AMACAST has a unique production process under nitrogen atmosphere with spinning disk – therefore no oxides on the surface, high roundness and no voids.

# AMACAST

- **Ni: 6 to 10 %**
- **Cr: 16 to 20 %**
- **Hardness: 45 HRC (470 HV)**
- **Roundness: > 90 %**
- **Durability: significantly higher than competition**



# AMACHROME – All about efficiency.

AMACHROME is recommended where ferrous contamination should be avoided: Aluminum profiles prior to coating, castings and other parts, stainless steel forgings, structural parts and welded fabrications, zinc, brass and other non ferrous metals die-castings and parts – as well as granite, other natural stone and concrete to create an anti-skidding roughness finishing.

## Combined capabilities for AMACHROME

ERVIN stainless technology is the most advanced in the world, combining the unique resources of the R&D center in Tecumseh, Michigan, with the manufacturing expertise of the German facility in Sprockhövel.

This makes AMACHROME the highest quality ferritic stainless abrasive media. Each grain is individually processed and sorted to ensure the right spherical shape and resilience to provide the longest durability. AMACHROME is made in a dedicated production process under air, with nitrogen jet and quench process by water. Rapid cooling from 1600 to 50 degrees is used to reach its optimal microstructure.

# AMACHROME

- **Ni: ca. 0,3 %**
- **Cr: ca. 18 %**
- **Hardness: 37 HRC (370 HV)**
- **Roundness: min. 70 %**
- **Durability: comparable to average CrNi-products, outstanding compared to Cr-products**



# AMAGRIT – Extreme durability.

AMAGRIT is used in all impact treatments: blast cleaning, deburring, sweep blasting of hot dipped galvanised surfaces, surface treatment prior to coating, surface finishing, fine and structural blasting and water jet cutting. AMAGRIT is recommended where ferrous contamination must be avoided.

## Industrial strength for AMAGRIT

AMAGRIT is one of the highest quality austenitic stainless abrasive media made in Europe – combining the unique resources of the R&D center in Tecumseh, Michigan, with the manufacturing expertise of the German facility in Sprockhövel. AMAGRIT is made in a dedicated production process under air, with water jet and quench process by water. Rapid cooling from 1600 to 50 degrees is used to reach its optimal microstructure.

# AMAGRIT

- Ni: ca. 0,3 %
- Cr: ca. 30 %
- Hardness: 59 HRC (675 HV)
- Durability: one of the best on the market





**On-site and lab services**

The international ERVIN service team offers a wide range of customers services and technical support: From finding the relevant abrasives for your application (instead of just comparing properties) to essential adjustment of blasting machines, from providing all kinds of blasting machines for test purposes to sieve analysis, blast system inspection and blast wheel efficiency analysis.

# That's what you get with: The world standard for quality.

**■ Superior performance**

When compared to other abrasives on the market, ERVIN products consistently surpass the competition in terms of durability, transmitted energy and other quality criteria.

**■ Better pricing**

ERVIN puts a lot of effort into optimizing production processes for maximum efficiency. This way, we can provide customers with higher quality products for a much lower price.

**■ Verified ISO 9001  
quality management system**

ERVIN guarantees a highly controlled production process, certified and regularly monitored by independent institutions.

**■ More benefits:**

- High worldwide product availability
- Best advice by well trained staff of world leader ERVIN
- Family owned, independent group in 3rd generation
- Excellent global customer references



We thank our strong partners:



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# ERVIN STAINLESS



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