





ICP

A DIVISION OF ALLIED MINERAL PRODUCTS



INDUSTRIAL CERAMIC PRODUCTS

Foundry & Investment Castings

Allied Mineral Products, LLC

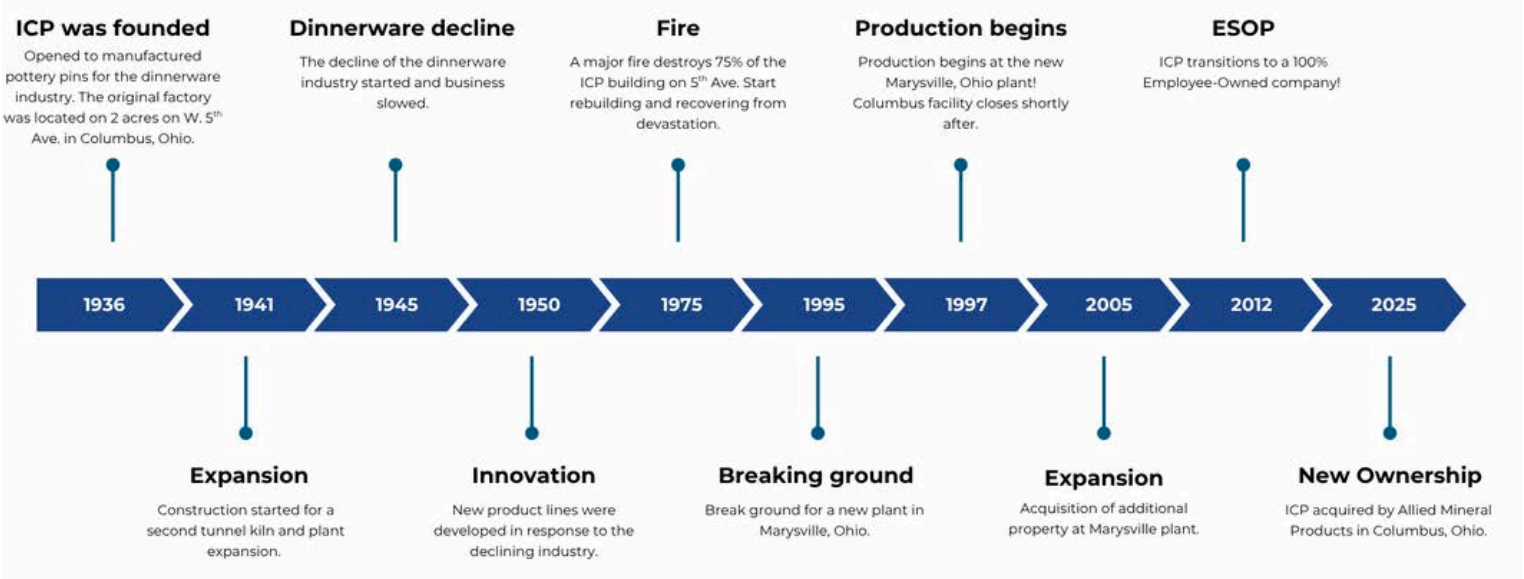
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ABOUT US

Founded in 1936, Industrial Ceramic Products (ICP) is built on strong principles and a customer-focused commitment to fast, reliable service. ICP provides custom-engineered ceramic solutions for investment casting challenges, developing and manufacturing high-value products for both new and established technologies.

History of ICP





ICP Manufacturing Facility
13-acre campus in Marysville, Ohio, USA

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CUSTOM CERAMIC SOLUTIONS

Investment casters rely on ICP as one of the most dependable sources of quality ceramic consumables. With decades of experience, we're helping foundries produce better castings by manufacturing a wide range of ceramic products used in high-temperature applications.

- State-of-the-art thermal processing
- Diverse line of ceramic components
- Materials include Fused Silica, Mullite, Alumina, Zircon & Custom Compositions
- Compression Molding, Injection Molding, Extrusion and Proprietary Forming processes
- Manufacture over 3,000 different ceramic part configurations

A complete line of ceramic products, including:

- Internal Cores
- Pour Cups
- Tubes
- Ceramic Rods
- Impact Pads
- Melt Out Plugs
- Double Cups
- Snouts
- Crucible Liners
- Risers
- Plates
- Custom Designs



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INVESTMENT CASTING



Internal Cores

ICP is committed to the development and growth of ceramic injection molding, specifically for the production of internal cores. A variety of ICP's ceramic core compositions are approved for use in casting applications including medical, IGT and Aerospace castings. All cores are 100% leachable and our thermal processing capacity allows for high-volume production with shorter lead times.



Pour Cups

Ceramic pouring cups are an essential component of manufacturing quality investment castings. The pour cup is typically mounted to the wax down sprue and becomes part of the ceramic shell. This offers the advantage of mold stability and a strong target area for metal impact, as well as creating a lowered potential for inclusions due to shell breakage. Cups are created from a proprietary mullite or fused silica composition—designed to be compatible with investment casting mold materials.



Double Cups, Vent Cups, Filter Cups

Double cups and vent cups are designed to assist in the reduction of re-oxidation inclusions by allowing gases to escape the mold during casting. Filter cups are designed to accommodate filters designed for metal filtration.



Ceramic Rods, Cover Plates, Mold Plugs

ICP ceramic rods are used to reinforce investment molds to increase shell strength. Rods are available in many geometries and lengths. ICP cover plates are designed to cover the mold inlet during pre heat to minimize contamination. Mold plugs are used to seal shell areas that have been vented to facilitate wax removal.

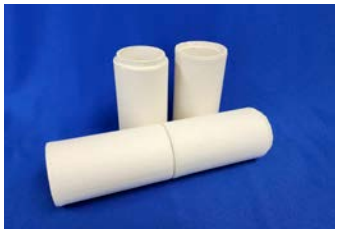


Custom Products

ICP can extrude, compression mold or injection mold custom ceramic components while determining the most cost-effective method of manufacture. Shapes such as tubes, crucibles, rings, snouts etc. can be formed using mullite or fused silica compositions.

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FOUNDRY PRODUCTS



Ceramic Tubes

Ceramic tubes are custom manufactured from proprietary formulations to provide maximum erosion resistance and dimensional stability. These can be made in fractional lengths to minimize the need for sawing. In addition to the standard plain end design, tubes can be male-female, radiused (bent), mitered end, squashed end or any combination of designs.



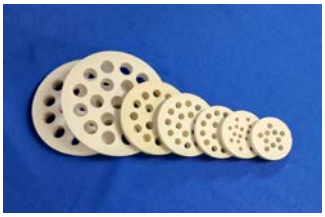
Ceramic Fittings

ICP ceramic fittings are single-piece designs to provide maximum spall and erosion resistance. Available in standard elbow, tee and cross design fittings, our pieces can also be manufactured to custom inlet-outlet specifications to allow gating reduction within the runner system.



Ceramic Pour Cups

ICP ceramic pouring cups are an essential component used in the manufacturing of quality castings. With a primary benefit of eliminating sand erosion at mold inlet, our cups are designed to mate with ICP tubes and offer the advantage of a strong target area for metal impact as well as lowering inclusions due to erosion.



Ceramic Filters & Strainer Cores

ICP ceramic filters and strainers are designed as a cost-effective method of modifying metal flow to help segregate impurities from castings. ICP's precision molding process ensures consistent part dimensions and gating area.



Custom Products

ICP can extrude, compression mold or injection mold custom ceramic components utilizing the most cost-effective materials and method of manufacture. Our engineering team is available to assist with product design and recommend the best ceramic solution for your toughest casting challenges.

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