

INCAST[®] 3D

3D Printing Foundry Sand

Imprint greater success with 3D printing foundry sand

3D printing has seen a significant increase in use over the past several years. Nowadays, more foundries rely on this technology for proof of concept, rapid prototyping, and production of high-complexity castings, giving them desired flexibility in design optimization, lowering tooling cost and reducing their waste by recycling sand.

Don't let the sand be the variable in your 3D printing operation

In 3D sand printing, everything depends on the effectiveness of the sand foundries use. The selection of silica sand requires the understanding of how it will impact printing operation. A minor deviation of the print media can have a large impact on the final printing outcome. The iterative creation process must be repeatable under many different environmental conditions, from the first to last layer, that are present in small to medium foundries to be successful, all while trying to use the most cost-effective printing media available.

We deliver silica sand that exhibits a great balance between density, grain shape, and permeability. Our high-purity, round, 99%+ quartz sand is pH neutral. The low turbidity and superior roundness ensure pack density for accurate layer-by-layer binder jetting that creates complex cores and molds with superior surface finish.

- Achieve flexibility in design optimization
- Rely on sand effectiveness from first to last layer
- Choose from a wide variety of sand sizes and distributions

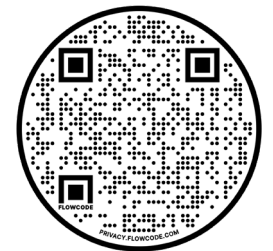
TOP 3 HIGH-VOLUME 3D PRINTING SAND-PRODUCING MINES Typical Mean Values. These Do Not Represent A Specification.

PLANT LOCATION	ROUNDNESS	TYPICAL ACID DEMAND VALUE (ADV)	PH	PRODUCT GFN RANGE
WEDRON, IL	●	0.2	7.6	25-80
ROFF, OK	●	0.4	8.0	50-80
OREGON, IL	●	0.7	8.6	35-80

● round grain ● round/subround grain ● subround grain

Leverage reliable, well-known foundry expertise

With industry-leading insight into naturally occurring raw materials, we understand mineralogy complexity. Covia foundry experts listen attentively and collaborate exhaustively to customize the solution that is aligned with your 3D printing projects. Our many decades of foundry sand expertise is the most reliable, well-known source of information that controls product and process quality.



Access UNI research on silica sand in 3D printing operations

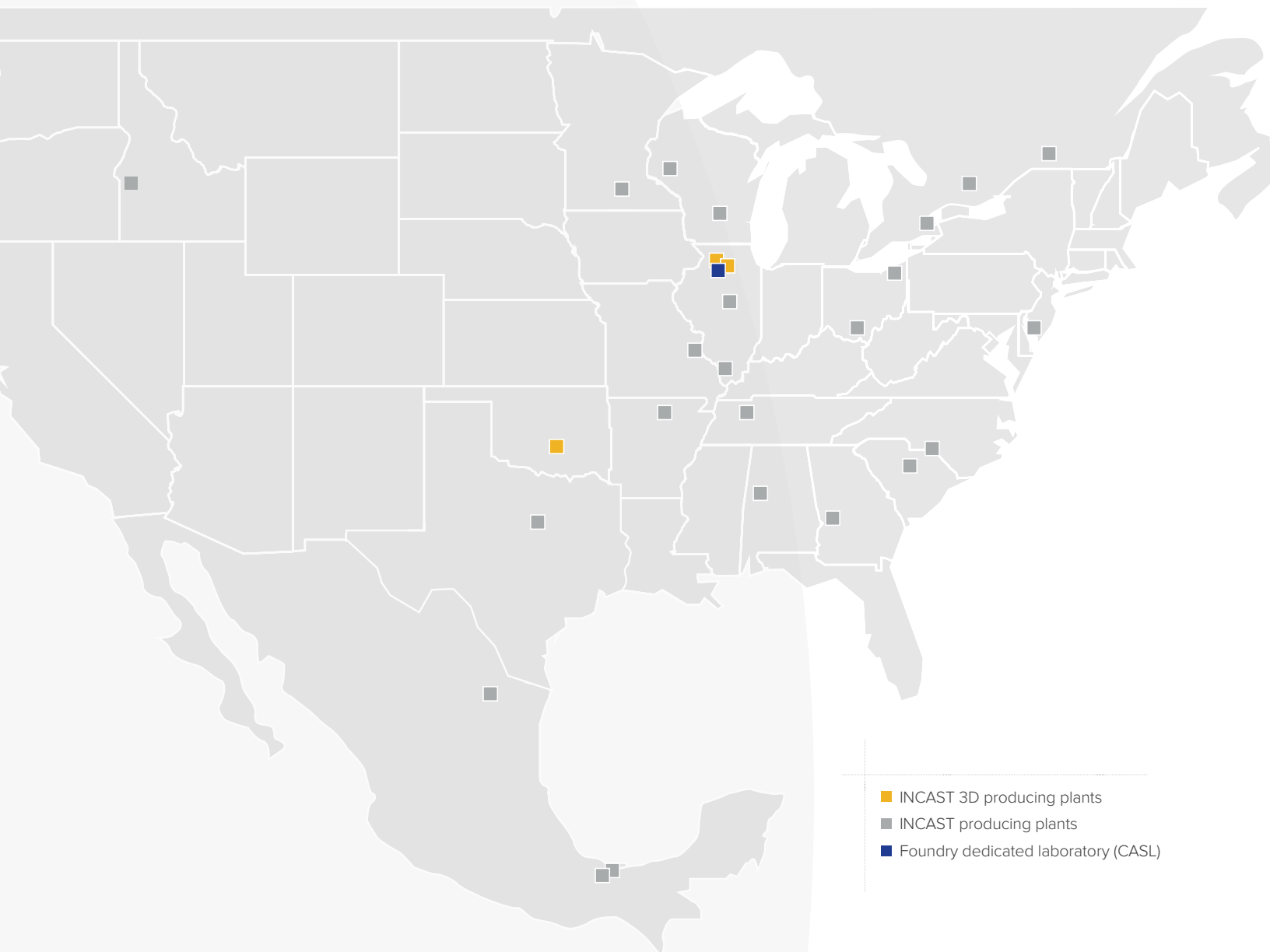
For more information about INCAST 3D printing foundry sand, please call: 800.243.9004 or email: Sales@CoviaCorp.com



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INCAST 3D printing foundry sand is sourced from Covia's high-volume mines that are part of our industry-leading strategic distribution network. All of our sand is processed and sized with rigid adherence to QIPSM statistical and quality assurance programs. As North America's largest industrial sand producer, the Covia team has had an unwavering commitment to the foundry industry for six decades.



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