

FEATURES & BENEFITS

INCAST® high-purity, 99%+ quartz foundry sand improves casting quality with better surface finish and superior tensile strength. The high-purity grain's hardness ensures lower attrition that increases sand reclamation. Cleaner sand boosts your commitment to the team's working conditions. All INCAST foundry sand is processed and sized with rigid adherence to the Covia QIPSM statistical and quality assurance program.

PARTICAL SIZE ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

	Mesh Size		INCAST® Grades							
	ASTM	MICRONS	30LF	35LF	40	45	50	52*	55	60
Typical mean % retained on individual sieves	18	1.00mm	–	–	–	–	–	–	–	–
	20	850	0.6	–	–	–	–	–	–	–
	30	600	23.5	1.9	4.6	2.7	1.5	–	0.7	0.2
	40	425	60.4	56.3	33.1	22.6	14.5	2.4	7.8	2.9
	50	300	13.2	39.6	40.8	36.4	31.0	34.4	22.6	13.9
	70	212	1.8	1.8	15.0	23.6	30.0	40.7	35.0	40.5
	100	150	0.4	0.3	5.0	11.9	18.0	17.9	26.4	33.0
	140	106	0.1	0.1	1.5	2.6	4.5	4.2	6.7	8.4
	200	75	tr	tr	tr	0.2	0.5	0.4	0.8	1.0
	PAN	PAN	–	–	–	tr	tr	tr	tr	0.1
AFS-GFN	–	–	30	34	40	45	50	52	55	60
Calculated surface area (cm ² /g)	–	–	73	88	110	131	150	159	171	188

PHYSICAL PROPERTIES

Typical Mean Values. These Do Not Represent A Specification.

INCAST® Foundry Sand		
Grain Shape	Round	AFS 107-87-S
Clay Content (%)	0.1	AFS 110-87-S
Acid Demand Value (ADV)	1.0	AFS 114-87-S
Melting Point (°F/°C)	3135/1724	ASTM C-24
Specific Gravity (g/cm ³)	2.65	ASTM C-128
Moisture Content (%)	<0.1	ASTM C-566
Bulk Density/Loose (lb/ft ³)	92-95	ASTM C-29
Bulk Density/Compacted (lb/ft ³)	98-100	ASTM C-29

CHEMICAL ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

Typical Mean Percent by Weight	
Silicon Dioxide (SiO ₂)	99.80
Iron Oxide (Fe ₂ O ₃)	0.02
Aluminum Oxide (Al ₂ O ₃)	0.08
Calcium Oxide (CaO)	tr
Titanium Dioxide (TiO ₂)	0.01
Magnesium Oxide (MgO)	tr
Potassium Oxide (K ₂ O)	0.05
Sodium Oxide (Na ₂ O)	0.01
Loss on Ignition (LOI)	0.02

SHIPPING/ORDERING INFORMATION

- Shipping Point: Portage, WI
- Originating Carrier: Canadian Pacific Railroad
- Availability: Bulk, 50 lb Plastic Bag
INCAST® 52 Available in Bulk Only
Truck and Rail

CUSTOMER SERVICE

US & Canada: 1-800-243-9004

Fax: 1-800-243-9005

Worldwide: 1-203-442-2500

Fax: 1-203-972-1378

3 Summit Park Drive, Suite 700, Independence, OH 44131 | CoviaCorp.com

GRADE NUMBERS INDICATE RELATIVE VALUES OR RESULTS. THEY ARE NOT A SPECIFICATION OR WARRANTY OF PERFORMANCE.

Health Hazard Warnings: Prolonged inhalation of dust associated with the materials described in this data sheet can cause delayed lung injury including Silicosis, a progressive, disabling and sometimes fatal lung disease. IARC and NTP have determined that crystalline silica can cause lung cancer in humans. Risk of injury is dependent on the duration and level of exposure. Follow OSHA or other relevant safety and health standards for the form of crystalline silica called Quartz. Current safety data sheet, containing safety information, is available and should be consulted before usage.

Notice: While information contained herein is correct to the best of our knowledge, Covia hereby disclaims any warranties as to the accuracy of the same. Recommendations or suggestions are made without guarantee or representation as to result, since conditions of usage are beyond our control. All materials are sold subject to Covia's standard terms and conditions of sale and the condition that buyer shall make his own tests to determine the suitability of such product for buyer's purpose. No statement contained herein shall be construed as a license to operate under or as a recommendation to infringe any patent.

Silica/Silica Containing

COVIA and INCAST® are trademarks of Covia Holdings Corporations and/or its subsidiaries. All rights reserved.