

FEATURES & BENEFITS

INCAST® foundry sand, which is approximately 94.85% silica, has a subangular shape and contains natural oxides that contribute to thermal stability thereby reducing expansion defects. In high-temperature applications, our subangular, refractory sand reduces thermal expansion with the right packing density. This sand is resistant to core and mold thermal cracking.

PARTICLE SIZE ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

	Mesh Size		INCAST® Grades				
	ASTM	50LS	55LS	60LS	65LS	70LS	80LS
Typical mean % retained on individual sieves	20	TR	TR	TR	TR	TR	TR
	30	2.5	2.0	2.0	2.0	1.5	0.5
	40	10.0	8.0	6.0	4.0	3.0	1.0
	50	29.0	22.0	17.0	13.0	9.0	3.0
	70	39.0	36.0	29.0	26.0	21.0	10.0
	100	17.5	26.0	31.0	37.0	41.0	49.0
	140	2.0	6.0	12.0	14.0	19.0	26.0
	200	0	0	3.0	4.0	5.0	9.0
	270	0	0	0	0	0.5	1.0
	PAN	0	0	0	0	0	0.5
AFS/GFN	–	50.0	55.0	60.0	65.0	70.0	80.0

PHYSICAL PROPERTIES

Typical Mean Values. These Do Not Represent A Specification.

INCAST® Foundry Sand		
Grain Shape	Subangular	AFS 107-87-S
Clay Content (%)	0.10	AFS 110-87-S
Acid Demand Value (ADV)	1.0	AFS 114-87-S
Melting Point (°F/°C)	2775/1523	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	
Loss on Ignition (LOI)	<0.5
Silicon Dioxide (SiO ₂)	94.85
Iron Oxide (Fe ₂ O ₃)	0.21
Aluminum Oxide (Al ₂ O ₃)	2.81
Potassium Oxide (K ₂ O)	1.35
Sodium Oxide (Na ₂ O)	0.29
Potassium Oxide (K ₂ O)	<0.01
Calcium Oxide (CaO)	0.21
Magnesium Oxide (MgO)	0.09

ORDERING INFORMATION

- Shipping Point: Hamilton, ON
- Availability: Bulk, IBC
Truck

CUSTOMER SERVICE

US & Canada: 1-800-639-1235
Worldwide: 1-203-442-2500

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.

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Silica/Silica Containing

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