

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.

PARTICAL SIZE ANALYSIS

Typical Mean Values. These Do Not Represent A Specification.

	Mesh Size		INCAST® Grades													
	ASTM	MICRONS	25	30LF	35LF	40	45	50	55	60	70	80	90	100	110	115
Typical mean % retained on individual sieves	30	600	34.3	17.2	1.6	1.3	0.8	0.5	–	–	–	–	–	–	–	–
	40	425	62.2	71.8	56.2	35.5	20.8	12.3	1.3	0.7	0.1	–	–	–	–	–
	50	300	3	10.6	39.3	35.9	36.3	32.5	29.9	21.5	7.7	1.7	0.6	0.3	0.3	–
	70	212	–	0.4	2.5	23.7	27.0	31.6	38.9	38.6	34.3	21.9	17.4	10.7	6.3	1.6
	100	150	–	0.1	0.3	3.1	10.3	15.3	19.8	25.0	34.6	39.8	28.0	19.6	11.7	8.2
	140	106	–	0.1	–	0.3	3.8	5.9	8.0	11.0	17.6	26.5	36.7	47.0	50.0	59.1
	200	75	–	–	–	–	0.9	1.4	1.9	2.9	5.1	8.9	13.4	18.3	26.4	25.2
	270	53	–	–	–	–	–	–	0.1	0.3	0.5	1.1	2.6	3.6	4.8	5.3
	PAN	PAN	–	–	–	–	–	–	–	–	–	–	0.3	0.5	0.5	0.6
AFS-GFN	–	–	25	30	34	40	47	52	57	61	70	81	90	101	110	113
Surface area (cm ² /g)	–	–	60	74	88	112	136	156	177	190	225	260	300	333	366	378

PHYSICAL PROPERTIES

Typical Mean Values. These Do Not Represent A Specification.

INCAST® Foundry Sand		
Grain Shape	Round	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)	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.

	Mean Percent by Weight
Silicon Dioxide (SiO ₂)	99.65
Iron Oxide (Fe ₂ O ₃)	0.02
Aluminum Oxide (Al ₂ O ₃)	0.07
Calcium Oxide (CaO)	0.01
Titanium Dioxide (TiO ₂)	0.01
Magnesium Oxide (MgO)	0.01
Potassium Oxide (K ₂ O)	<0.01
Sodium Oxide (Na ₂ O)	0.01
Loss on Ignition (LOI)	0.07

SHIPPING/ORDERING INFORMATION

- Shipping Point: Wedron, IL
- Originating Carrier: Burlington Northern Santa Fe (BNSF)
- Availability: Bulk, IBC, 50 lb Paper Bag
Truck and Rail

CUSTOMER SERVICE

US & Canada: 1-800-255-7263

Fax: 1-269-465-6075

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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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