



Foundry Sand

Opta Minerals your source for Foundry Products:

Chromite
 Foundry Sands
 Cerabeads
 Green Sand Additives
 (Bentonite, Carbobond & Carsins)
 Olivine Sand
 Resin Coated Sands and
 Chemically Bonded Sands
 Riser Sleeves, Flux and
 Metal Filters
 Zircon

Contact Us

Our sales team is ready to help you to determine the right product for your job.
 For more information please call us:
 Toll-free: 888-689-6661
 Tel: 519-720-9694
 E-mail: info@optaminerals.com
 Visit: www.optaminerals.com

Mined and manufactured to the high standards of U.S. Silica's ISO 9001 Certified Quality System Air sized and blended to meet the most demanding foundry specification.

In foundry application, the medium grades: #49, #56, #63 offer high permeability due to excellent fines control and are ideal for most core and molding applications in iron, steel and non-ferrous foundries. They also offer high strength in all binder systems.

The finer grades: F 71 consist of rounded to sub-angular grains, which provide high strength and excellent permeability. They achieve superior casting finishes in all binder systems and metals.

ADVANTAGES OF FOUNDRY SAND

- ISO 9001 Certified
- High strength, superior casting finishes in all binder systems and metals

FOUNDRY SAND SPECIFICATIONS

Mesh	mm	#32	#49	#56	#63	#71	#125	#290
16	1,180							
20	0,850	< 1						
30	0,600	25	< 1	< 1				
40	0,425	38	11	4	4	1		
50	0,300	27	34	21	17	9		
70	0,212	8	37	41	32	30		
100	0,150	2	15	27	31	35		
140	0,106	< 1	3	6	14	20	1	1
200	0,075		< 1	< 1	2	4	4	4
270	0,053				< 1	< 1	11	11
325	0,045						6	7
PAN	0						78	77

TECHNICAL SPECIFICATIONS (IN %)

Symbol	Name	Percentage
SiO ₂ (total)	(Silicon Dioxide)	99.70%
Al ₂ O ₃	(Aluminum Oxide)	0.14%
Fe ₂ O ₃	(Iron Oxide)	0.016%

TECHNICAL SPECIFICATIONS (IN %)

Symbol	Name	Percentage
K ₂ O	(Potassium Oxide)	0.04%
Na ₂ O	(Sodium Dioxide)	< 0.01%
MgO	(Magnesium Oxide)	< 0.01%
CaO	(Calcium Oxide)	< 0.01%

CHARACTERISTICS

	#32	#49	#56	#63	#71	#125	#290
Colour	White	White	White	White	White	White	White
AFS-GFN	32.5	49.0	56.0	63.0	71.0		

Mineral	Quartz
Solubility	Insoluble
Specific Gravity	2.65
Bulk Density (aerated)	99 lb/ft ³
Grain Shape	Sub-angular
Hardness	7 Mohs

PACKAGING

55 lb paper bags, 100 lb paper bags
 3000 lb Super Sacs
 Bulk (blower truck or rail hopper cars)

Warning: The product contains crystalline silica - quartz, which can cause silicosis (an occupational lung disease) and lung cancer. For detailed information on the potential health effect of crystalline silica - quartz, see our MSDS.

Disclaimer: The information set forth in this Product Data Sheet represents typical properties of the product described; the information and the typical values are not specification. Opta Minerals makes no representation or warranty concerning the Products, expressed or implied, by the Product Data Sheet