

SILICA SAND & SILICA FLOUR

PRODUCT RANGE

Graded silica sand and finely ground silica flour.
Product samples, supply options and technical data.

Sand | 8 available sizes

Flour | 45, 75 & 100 microns



Silica Sand

Available size ranges

- **0.25 - 0.5 mm | Low Fe**
- 0.2 - 0.6 mm
- 0.5 - 1 mm
- 0.5 - 1.5 mm
- 0.5 - 2 mm
- 1.6 - 2.8 mm
- 0.2 - 1 mm
- 0 - 0.28 mm



INMAA silica sand sample

Silica Flour

Available fineness grades

- **45 microns**
- **75 microns**
- **100 microns**

Technical data sheets are included for all three grades.



INMAA samples shown: 100 microns and 75 microns.

Packaging

Supply formats for silica sand and silica flour

Jumbo Bags

Silica Sand & Silica Flour



Loose / Bulk Dump Trucks

Silica Sand only



Technical Data Sheets

Grade-specific chemical and physical specifications

PRODUCT / GRADE	TDS REFERENCE
Silica Sand Low Fe 0.25 - 0.5 mm	INM/REF-PRO01/SS07
Silica Sand 0.2 - 0.6 mm	INM/REF-PRO01/SS03
Silica Sand 0.5 - 1 mm	INM/REF-PRO01/SS04
Silica Sand 0.5 - 1.5 mm	INM/REF-PRO01/SS06
Silica Sand 0.5 - 2 mm	INM/REF-PRO01/SS05
Silica Flour 45 microns	INM/REF-PRO01/SF03
Silica Flour 75 microns	INM/REF-PRO01/SF02
Silica Flour 100 microns	INM/REF-PRO01/SF01

The following pages reproduce the supplied technical data sheets for each listed grade.



Technical Data Sheet

REF: INM/REF-PRO01/SS07

Email: info@inmaa.sa

Website: www.inmaa.sa

SILICA SAND

Applications:

Industrial Process Silica Sand

General Product Information:

Density	2.65 g/cm ³	Bulk density	1.6 g/cm ³
Storage temperature	Up to 50°C		

Chemical / Physical Data:

Odor	None	Natural Solubility in water	Insoluble
Form	Solid	Melting Point	1610°C
Color	White		
pH Value	7.0 – 8.0		
ADV (ml)	<3		
Boiling point	2230°C		

Packing Information:

Packages: 1000, 1500, 2000 kgs

Packing: Bags

Specification:

Grade:0.25– 0.5mm

TECHNICAL SPECIFICATION

Chemical Specifications		
Compound	Conc.	UOM
Sio ₂	>99.13	%
Fe ₂ O ₃	<0.011	%
TiO ₂	<0.04	%
Moisture	<0.1	%
Loss of Ignition	<0.15	%

Physical Specifications			
Seize		Specifications	Result %
µm	Size		
	Mesh		
>1000	18	<0%	0
1000-500	35-18	<5.5%	5.32
500-425	40-35	<25%	26.865
425-300	45-50	<45%	48.492
300-250	50-60	<10%	10.505
250-180	80-60	<9%	8.818
180-150	100-80	<0%	0
150-100	140-100	<0%	0
Less than 100		<0%	0
Total		100	SilicaSand0.25–0.5mm

Technical Data Sheet

Silica Sand Low Fe

0.25 - 0.5 mm

INM/REF-PRO01/SS07

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Technical Data Sheet

REF: INM/REF-PRO01/SS03

Email: info@inmaa.sa

Website: www.inmaa.sa

SILICA SAND

Applications:

Industrial Process Silica Sand

General Product Information:

Density	2.65 g/cm ³	Bulk density	1.6 g/cm ³
Storage temperature	Up to 50°C		

Chemical / Physical Data:

Odor	None	Natural Solubility in water	Insoluble
Form	Solid	Melting Point	1610°C
Color	White		
pH Value	7.0 – 8.0		
ADV (ml)	<3		
Boiling point	2230°C		

Packing Information:

Packages: 1000, 1500, 2000 kgs
Packing: Bags

Specification:

Grade:0.2–0.6mm

TECHNICAL SPECIFICATION

Chemical Specifications		
Compound	Conc.	UOM
SiO ₂	98.69	%
Fe ₂ O ₃	0.02	%
Al ₂ O ₃	0.22	%
CaO	0.05	%
MgO	0.015	%
TiO ₂	0.04	%

Physical Specifications			
Seize		Specifications	Result %
µm	Mesh		
>600	+ 30	0%	0
600 - 500	30-35	<5.5%	5.32
500 - 425	35-40	>25%	26.865
425 - 300	40-50	>45%	48.492
300 - 250	50-60	>10%	10.505
250 - 180	60-80	<6%	5.725
< 180	-80	<3.5%	3.0925
Total		100	SilicaSand0.2–0.6mm

Technical Data Sheet

Silica Sand

0.2 - 0.6 mm

INM/REF-PRO01/SS03

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Technical Data Sheet

Silica Sand

0.5 - 1 mm

INM/REF-PRO01/SS04



Technical Data Sheet
REF: INM/REF-PRO01/SS04
Email: info@inmaa.sa
Website: www.inmaa.sa

SILICA SAND

Applications:

Industrial Process Silica Sand

General Product Information:

Density	2.65 g/cm ³	Bulk density	1.6 g/cm ³
Storage temperature	Up to 50°C		

Chemical / Physical Data:

Odor	None	Natural Solubility in water	Insoluble
Form	Solid	Melting Point	1610°C
Color	White		
pH Value	7.0 – 8.0		
ADV (ml)	<3		
Boiling point	2230°C		

Packing Information:

Packages: 1000, 1500, 2000 kgs
Packing: Bags

Specification:

Grade: 0.5 – 1 mm

Chemical Specifications		
Compound	Conc.	UOM
SiO ₂	>99.43	%
Fe ₂ O ₃	<0.02	%
Al ₂ O ₃	<0.034	%
CaO	<0.04	%
MgO	<0.01	%
TiO ₂	<0.04	%

Physical Specifications			
Seize		Specifications	Result %
µm	Size		
>1000	>18	0%	0
1000-800	18-20	<8%	7.36
800-710	20-25	<20%	19.936
710-600	25-30	<35%	39.3
600-500	30-35	<25%	29.366
500-425	35-40	<3%	2.7066
425-300	40-50	<1.5%	1.33
< 300	<50	<0%	0
Less than 100		<0%	0
Total		100	Silica Sand 0.5 – 1mm



Technical Data Sheet
REF: INM/REF-PRO01/SS06
Email: info@inmaa.sa
Website: www.inmaa.sa

SILICA SAND

Applications:

Industrial Process Silica Sand

General Product Information:

Density	2.65 g/cm ³	Bulk density	1.6 g/cm ³
Storage temperature	Up to 50°C		

Chemical / Physical Data:

Odor	None	Natural Solubility in water	Insoluble
Form	Solid	Melting Point	1610°C
Color	White		
pH Value	7.0 – 8.0		
ADV (ml)	<3		
Boiling point	2230°C		

Packing Information:

Packages: 1000, 1500, 2000 kgs
Packing: Bags

Specification:

Grade: 0.5 – 1.5 mm

TECHNICAL SPECIFICATION

Chemical Specifications		
Compound	Conc.	UOM
Sio ₂	>99.5	%
Fe ₂ O ₃	<0.03	%
TiO ₂	<0.035	%
Moisture	<0.1	%
Loss of Ignition	<0.15	%

Physical Specifications			
Seize		% retained	Cumm % retained
µm	Mesh		
1700	12	0	0
1400	14	1.5	1.5
1180	18	9.1	10.6
850	20	26.1	36.7
600	30	46.3	83
500	35	14.3	97.3
425	40	2.2	99.5
300	50	0.5	100
PAN		0	100
Total		100	Silica Sand 0.5 – 1.5 mm

Technical Data Sheet

Silica Sand

0.5 - 1.5 mm

INM/REF-PRO01/SS06

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Technical Data Sheet

Silica Sand

0.5 - 2 mm

INM/REF-PRO01/SS05

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Technical Data Sheet
REF: INM/REF-PRO01/SS05
Email: info@inmaa.sa
Website: www.inmaa.sa

SILICA SAND

TECHNICAL SPECIFICATION

Applications:

Industrial Process Silica Sand

General Product Information:

Density	2.65 g/cm ³	Bulk density	1.6 g/cm ³
Storage temperature	Up to 50°C		

Chemical / Physical Data:

Odor	None	Natural Solubility in water	Insoluble
Form	Solid	Melting Point	1610°C
Color	White		
pH Value	7.0 – 8.0		
ADV (ml)	<3		
Boiling point	2230°C		

Packing Information:

Packages: 1000, 1500, 2000 kgs
Packing: Bags

Specification:

Grade:0.5-2mm

Chemical Specifications		
Compound	Conc.	UOM
SiO ₂	>99.43	%
Fe ₂ O ₃	<0.02	%
Al ₂ O ₃	<0.034	%
CaO	<0.04	%
MgO	<0.01	%
TiO ₂	<0.04	%

Physical Specifications			
Seize		Specifications	Result %
µm	Size		
>2400	+ 8	0%	0
2400-2000	8-10	<1%	0.606
2000-1600	10-12	>10%	10.986
1600-1000	12-18	>45%	47.48
1000-800	18-20	>35%	35.366
800-500	20-35	<6%	5.5596
< 500	35	0%	0
Total		100	SilicaSand0.5-2mm



Technical Data Sheet

REF: INM/REF-PRO01/SF03

Email: info@inmaa.sa

Website: www.inmaa.sa

Silica Flour (45 micron)

TECHNICAL SPECIFICATION

TYPICAL CHEMICAL ANALYSIS		
SiO ₂	Silicon Dioxide	99.26%
Fe ₂ O ₃	Iron Oxide	0.034%
Al ₂ O ₃	Aluminum Oxide	0.345%
CaO	Calcium Oxide	0.024%
MgO	Magnesium Oxide	0.007%
TiO ₂	Titanium Dioxide	0.038%
LOI	Loss on Ignition	0.254%
Density		0.495 g/cm3
Specific Gravity		2.650
TYPICAL PHYSICAL PROPERTIES		
Sieve Opening		% Passing
Micron		by Air jet
100		100.00
75		100.00
63		99.60
45		96.80
32		93.61

All data and recommendations are the result of careful tests by our laboratories. They only can be considered as recommendation which correspond to the level of experience of today. The data are given in good faith. However, in view of the multiplicity of possible application and working methods we are not in a position to assume any responsibility or obligations deriving from the use of our products.

Technical Data Sheet

Silica Flour
45 microns

INM/REF-PRO01/SF03

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Technical Data Sheet
REF: INM/REF-PRO01/SF02
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Website: www.inmaa.sa

SILICA FLOUR
75 microns

Technical Data Sheet

Silica Flour
75 microns

INM/REF-PRO01/SF02

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TECHNICAL SPECIFICATION

Physical and Chemical Properties

All results in weight percentage

Chemical Analysis

Chemical Components	Percent Composition	
	minimum	maximum
Silicon Dioxide (SiO2)	98.0	99.48
Calcium Oxide (CaO)	0.09	0.30
Magnesium Oxide (MgO)	0.05	0.24
Iron Oxide (Fe2O3)	0.03	0.11
Aluminum Oxide (Al2O3)	0.03	0.83
Titanium Oxide (TiO2)	0.05	0.07
Phosphorous Pentoxide (PsO5)	0.05	0.08
Loss to Ignition	0.11	0.30

Sieve analysis

Sieve Size	Passing Percentage	
	minimum	maximum
150 microns	100	
100 microns	100	
75 microns	99.10	99.90
63 microns	97.90	
45 microns	89.90	
32 microns	76.90	
25 microns	63.70	

Note: Particle percentage can be change according to specification.

Technical Data Sheet

Silica Flour 100 microns

INM/REF-PRO01/SF01

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Technical Data Sheet
REF: INM/REF-PRO01/SF01
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SILICA FLOUR 100 microns

Physical and Chemical Properties

All results in weight percentage

Chemical Analysis

Chemical Components	Percent Composition	
	minimum	maximum
Silicon Dioxide (SiO2)	98.0	99.48
Calcium Oxide (CaO)	0.09	0.30
Magnesium Oxide (MgO)	0.05	0.24
Iron Oxide (Fe2O3)	0.03	0.11
Aluminum Oxide (Al2O3)	0.03	0.83
Titanium Oxide (TiO2)	0.05	0.07
Phosphorous Pentoxide (PsO5)	0.05	0.08
Loss to Ignition	0.11	0.30

Sieve analysis

Sieve Size	Passing Percentage	
	minimum	maximum
150 microns	0	
100 microns	99.30	99.90
75 microns	98.10	
63 microns	97.20	
45 microns	87.00	
32 microns	73.90	
25 microns	52.50	

Note: Particle size percentage can be change according to specification.

TECHNICAL SPECIFICATION

Contact

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