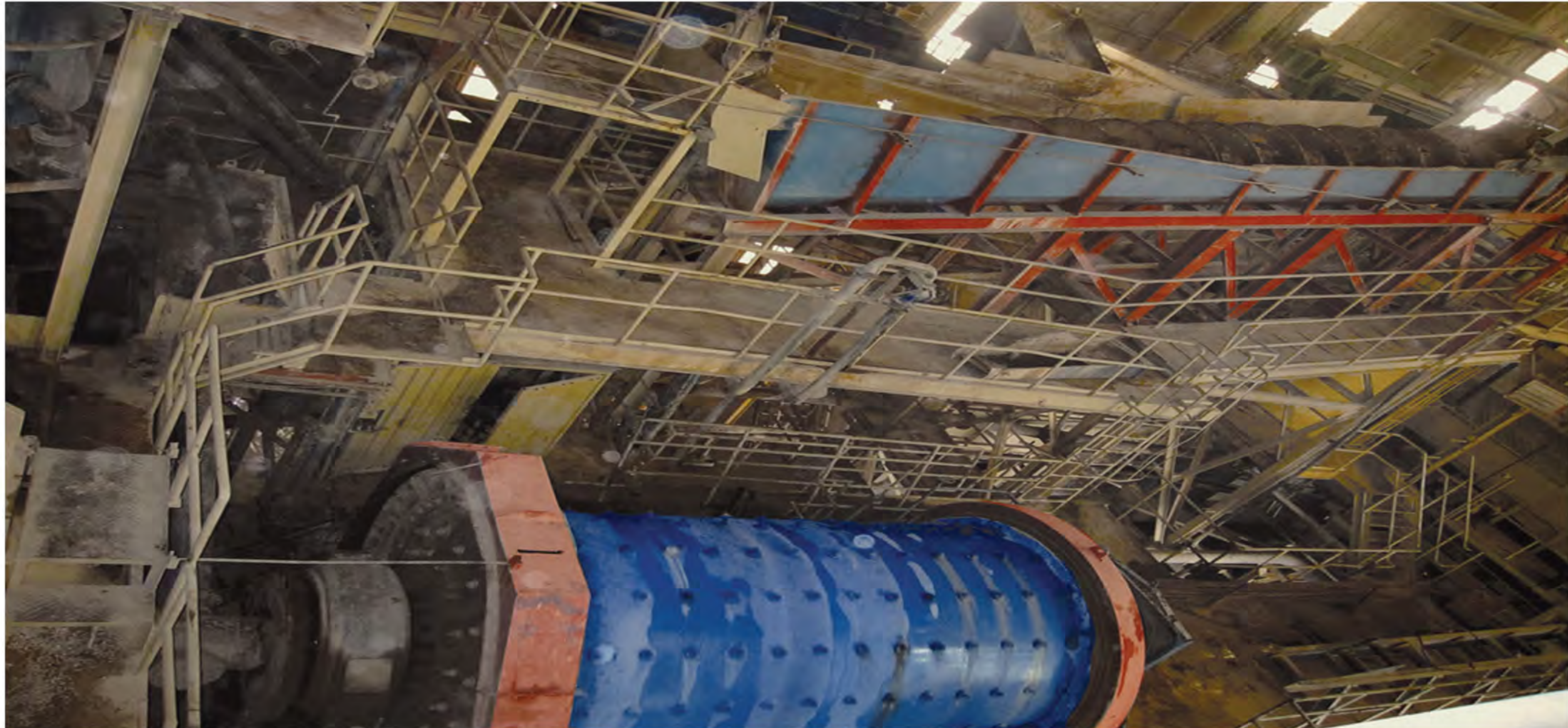




# Glass Raw Materials Exploitation Co. (GRMEC)

Production Of Different Grades Of Silica Sand For Glass Industries



## Chemical and physical specification

CHEMICAL SPECS.							
Type	A	C	DC	D	E	F	P ( Fine )
SiO <sub>2</sub>	97 ±0.4	98 ±0.3	98 ± 0.3	98.4 ± 0.2	98.6 ± 0.2	99.5 ± 0.2	93.74 ± 1.67
Fe <sub>2</sub> O <sub>3</sub>	0.09 ±0.01	0.045 max	0.03 ± 0.002	0.025 max	0.020 max	0.013 max	0.40 ± 0.15
Al <sub>2</sub> O <sub>3</sub>	1.3 max	1.1 max	1.1 max	0.5 ± 0.1	0.42 ± 0.1	0.12 max	3.19 ± 0.91
CaO	0.5 max	0.1 max	0.1 max	0.098 max	0.091 max	0.022 max	0.43 ± 0.32
MgO	0.2 max	0.1 max	0.1 max	0.09 max	0.082 max	0.017 max	0.1 ± 0.01
Na <sub>2</sub> O	0.07 max	0.04 max	0.03 max	0.03 max	0.029 max	0.011 max	0.1 ± 0.01
K <sub>2</sub> O	0.3 max	0.3 max	0.3 max	0.15 max	0.13 max	0.030 max	0.8 ± 0.36
TiO <sub>2</sub>	0.2 max	0.2 max	0.2 max	0.06 max	0.04 max	0.014 max	0.18 ± 0.02
L.O.I.	0.7 max	0.6 max	0.6 max	0.32 max	0.3 max	0.11 max	1.32 ± 0.28

Type	PHYSICAL SPECS. ( Grain size in micron)						Moisture
n*	2000	max 1200	max 850	min 850 - 106		<106 max	max % 5
	0	% 0.1	% 1	% 94		% 5	
f*	max 1200	max 1000	max 710	max 600	min 600 - 106	<106 max	max % 5
	0	Trace	% 0.2	% 0.3	% 93.8	% 5	
p* ( fine )	2000	1200	850	425	425-75	<75	max % 7
	0	0	Trace	0.17 ± 0.2	16.13 ± 1.7	83.7 ± 8.7	

\*n:normal grain size      \* f : float grain size      \* p : fine grain size

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# Glass Raw Materials Exploitation Co. ( GRMEC )

## Production Of different Grades of Foundry Silica Sand for Casting



### Chemical and Physical Specification

AFS	Grain Size (mm)	Grade
42 - 51	0.2 - 0.5	151
52 - 61	0.15 - 0.45	161
62 - 71	0.12 - 0.32	171
72 - 81	0.10 - 0.28	181
82 - 91	0.10 - 0.25	191
92 - 120	0.05 - 0.15	101
72 - 130	0.03 - 0.25	PW

CHEMICAL ( Grade 101-151 ) %						
SiO <sub>2</sub>	Max Al <sub>2</sub> O <sub>3</sub>	Max Fe <sub>2</sub> O <sub>3</sub>	Max CaO	Max Na <sub>2</sub> O	Max TiO <sub>2</sub>	Max K <sub>2</sub> O
97 ± 0.3	1.2	0.1	0.5	0.07	0.25	0.3
PHYSICAL ( Grade 101- 151)						
Density	Apparent Density	Hardness ( mohs )	Melting Point	Moisture ( max )	L . O . I . ( max )	Sinter Point
2.5 Kg/dm <sup>3</sup>	1.5 Kg/dm <sup>3</sup>	7	1710° C	% 0.2	% 0.7	> 1400° C

### PW grade Foundry Sand

CHEMICAL %						
SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub> Max	Fe <sub>2</sub> O <sub>3</sub> Max	CaO Max	Na <sub>2</sub> O Max	TiO <sub>2</sub> Max	K <sub>2</sub> O Max
97 ± 0.3	1.5	0.25	0.5	0.07	0.25	0.3
PHYSICAL						
Density	Apparent Density	Hardness ( mohs )	Melting Point	Moisture ( max )	L . O . I . ( max )	Sinter Point
2.5	1.5 ± 0.2	7	> 1600° C	% 0.2	% 0.7	> 1300° C

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