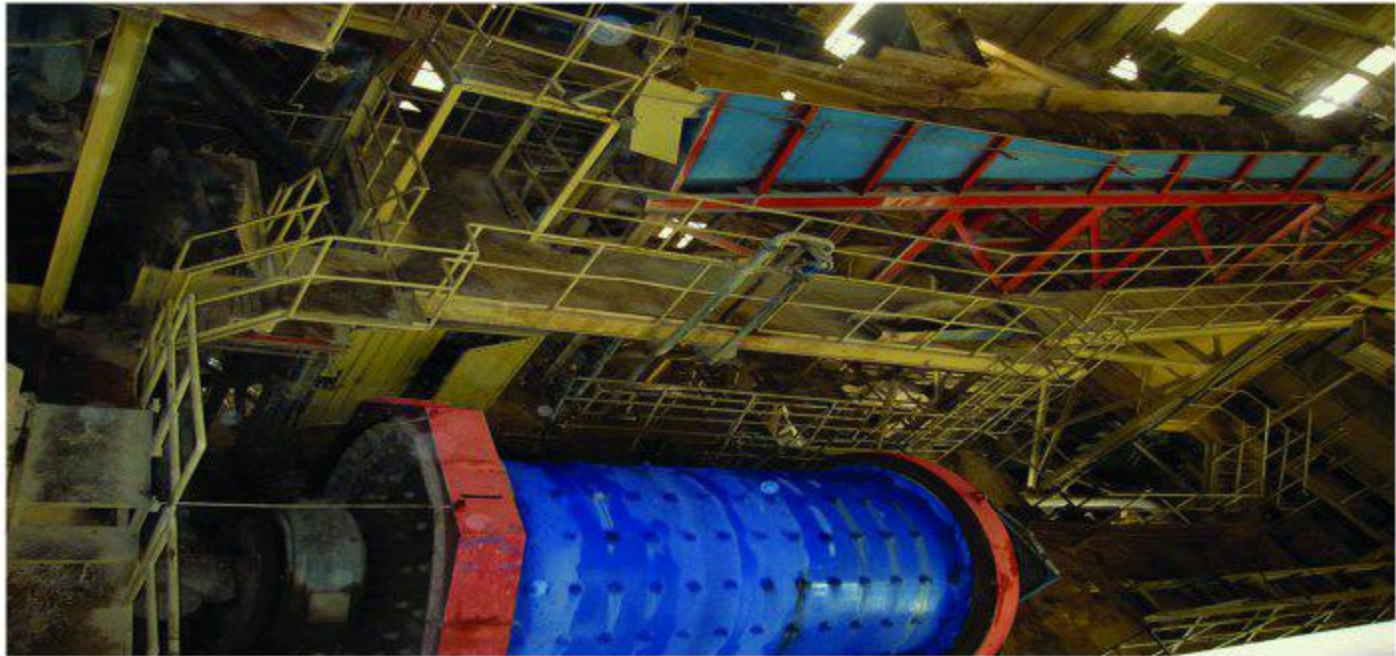




Glass Raw Materials Exploitation Co. (GRMEC)

Production Of Different Grades Of Silica Sand For Glass Industries



Chemical and physical specification

CHEMICAL SPECS					
% \ Type	A	AF	C	D	(Fine) P
SiO ₂	97 ±0.4	97 ±0.3	98 ±0.3	98 ± .3	93.74 ± 1.67
Fe ₂ O ₃	0.09 ±0.01	0.09 ±0.01	0.045 max	0.03 ± 0.002	0.40 ± 0.15
Al ₂ O ₃	1.3 max	1.1 ±0.1	1.1 max	1.1 max	3.19 ± 0.91
CaO	0.5 max	0.5 max	0.1 max	0.1 max	0.43 ± 0.32
MgO	0.2 max	0.2 max	0.1 max	0.1 max	0.1 ± 0.01
Na ₂ O	0.07 max	0.07 max	0.04 max	0.03 max	0.1 ±0.01
K ₂ O	0.3 max	0.3 max	0.3 max	0.3 max	0.8 ±0.36
TiO ₂	0.2 max	0.2 max	0.2 max	0.2 max	0.18 ± 0.02
L.O.I.	0.7 max	0.7 max	0.6 max	0.6 max	1.32 ± 0.28

Type	PHYSICAL SPECS (Grain size in micron)					Moisture	
D	2000	max 1200	max 850	min 850 - 106		<106 max	max % 0.2
	0	% 0.1	% 1	% 94		% 5	
A	2000	max 1200	max 850	min 850 - 106		<106 max	max % 5
	0	% 0.1	% 1	% 94		% 5	
C	2000	max 1200	max 850	max 710	min 710 - 106	<106 max	max % 5
	0	% 0.05	% 0.5	% 2	% 92.5	% 5	
AF	max 1200	max 1000	max 710	max 600	min 500 - 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	

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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 ₂	Max Al ₂ O ₃	Max Fe ₂ O ₃	Max CaO	Max Na ₂ O	Max TiO ₂	Max K ₂ 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 ³	1.5 Kg/dm ³	7	1710° C	% 0.2	% 0.7	> 1400° C

PW grade Foundry Sand

CHEMICAL %						
SiO ₂	Al ₂ O ₃ Max	Fe ₂ O ₃ Max	CaO Max	Na ₂ O Max	TiO ₂ Max	K ₂ 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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