Meinzer II[™] Testing Sieve Shaker

Operation & Set-up Manual

<u>Model:</u> 18480100



CSC Scientific, Inc.

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Introduction

Thank you for selecting this high-quality piece of testing apparatus. We appreciate your support and pledge to assist you in the service of your CSC Scientific testing apparatus.

The Meinzer II is a maintenance free, lightweight and portable vibrating shaker that will provide precise, repeatable results time after time.

By utilizing an electromagnetic drive, fixed amplitude and rubber spring mounts, this unit produces the simultaneous vertical and horizontal movement needed for basic dry particle sizing analysis. This unit is ideal for use with aggregates, cements, chemicals, powdered metals, cosmetics, grains, seeds, coal, soils, pharmaceuticals, tobacco, coffee and many other dry components in ground, granular of powder form. Each unit is "burned in" and run continuously for over half a day, guaranteeing performance right out of the box. *This unit is not recommended for wet sieving operation.*

Besides the physical nuts and bolts, this device is backed by a company with decades of experience in the dedicated service of users in the powder and particulate industries. We look forward to servicing you as well.

Specifications

Model Designations and Power Requirements

Model 18480100 110VAC/60Hz operation. Accepts 8"(203.2mm), 200mm or 3" (76.2mm) diameter sieves

Timer

• 1 – 60 minutes with automatic shut-off, or continuous run setting

Dimensional Specifications

Weight

• 37 lbs (17Kg)

General Specifications

- Durable, powder coated finish
- Unit Capacity. 8" (203.2mm) or 200mm 8 full height or 15 half height, plus pan and cover

Unit ships with

- Operation and Set-up Manual
- 6' (2 meter) Power Cable
- Top Plate Assembly
- Meinzer II Shaker fitted with Clamping Straps and Buckles
- Sieves, pans and covers must be ordered separately.

Installation & Set-up Instructions

The Meinzer II Testing Sieve Shaker is designed to provide years of trouble-free service. To assure that the device delivers optimum performance, several points must be observed before putting the device into service.

1) Installation

Position the machine on a level, sturdy surface to ensure the even distribution of the sample over the sieves during operation.

2) Electrical Connections

Verify that the voltage and frequency on the Rating Label at the rear of the shaker corresponds with the electrical power supply being used. If any discrepancy occurs, please consult your supplier or contact CSC Scientific Tech Support for assistance. Do not connect any power supply other than that stated on the Rating Label. <u>Important</u>! This equipment must be grounded.

When the power is properly connected, the red rocker switch will illuminate when switched to the "on" position. If the switch does not light, the connector may not be fully inserted or the fuse may be blown. Replacement fuses must be of identical rating.

3) Process Timer

The Meinzer II features a mechanical, 1 – 60 minute timer with automatic shutoff. There is also a continuous running time feature. For settings of less than 15 minutes, rotate the knob past the 15 minute mark and then back to the desired setting. Operating periods are increased by rotating clockwise and decreased by rotating counter-clockwise. The timer will commence timing down as soon as the knob is released, regardless of an electrical connection. When the knob is turned counter-clockwise from the "OFF" position to the continuous running mark, "I", the shaker will continue running until the knob is manually returned to the "OFF" position.

4) Maintenance

The Meinzer II Sieve Shaker is maintenance free aside from keeping surfaces clean. Simply wipe with a soft damp cloth using a solution of warm water and a mild liquid detergent. **Do not clean your sieve shaker or sieves with solvents.**

6) General Advice

The Meinzer II Sieve Shaker is constructed and factory tested to ensure correct operation when connected to the specific electrical supply indicated on the Rating Label of the machine. Under typical usage, no lubrication or resetting is required. Use of unapproved parts or any alteration to the machine voids the warranty.

For replacement parts, please contact CSC Scientific's Tech Support Team at 800.621.4778 or <u>meinzerII@cscscientific.com</u>. Please have your serial number ready for prompt service.

CSC Scientific does not accept any responsibility if the operating instructions contained in this manual are not strictly followed.

Performing a Sieve Analysis using the Meinzer II Testing Sieve Shaker

- 1) Complete set up of the Meinzer II Testing Sieve Shaker per instructions under "Installation and Set-Up Instructions".
- 2) Plug the device into the proper power source (be sure that voltage and cycle requirements are observed).
- 3) Prepare the material sample to be tested using industry-specified sampling and preparation procedures.
- 4) Select the sieves for the analysis.
- 5) Assemble the sieve stack, (coarsest sieve at the top, finest at the bottom) with bottom pan. An extended rim pan may be inserted within the stack to run multiple samples. See **Figure 7 A** in the FAQ's for an example of the extended rim pan. Bear in mind the overall height of the sieve stack may not exceed the capacities shown in **Chart 4A** of the FAQ's.
- 6) Pour the sample to be tested onto the top sieve. Install a standard sieve cover to prevent sample loss.

7)Place the sieve stack on the Bottom Plate.

- 8) Cover the completed stack with the Top Plate and secure as follows:
 - Raise the Clamping Latch Lever upwards to expose the Latch Hook.
 - While holding the Clamping Latch with one hand, press the lever on the Cam Buckle with the other.
 - Slide the Cam Buckle along the Strap until it can be engaged into the Clamping Latch hook.
 - Release the Cam Buckle and pull the loose end of the Strap downwards to partially tension. **Do not over tension!** The Clamping Latch lever will remain in the raised position, 20 30 degrees from the vertical when partially tensioned. Repeat these steps on the other side.
 - Press both levers down, closing the Clamping Latches to secure the stack. Do not use excessive force. It may be necessary to loosen the straps slightly to secure. Repeat the previous action to

release or increase the tension in the strap as necessary to ensure a firm grip.

<u>Warning</u>: Do not run the machine with unsecured sieves.

- 9) Set the timer for the desired test interval. For timer setting instructions please refer to item three in the Installation & Set-up Instructions at the front of this manual.
- 10) Once the test is complete, allow the sieve stack to come to a stop.
- 11) Remove the sieve stack and proceed to weigh-up the retained fractions. <u>Warning</u>: Do not attempt to release the Clamping Latches and remove the sieves while the machine is still running.

STANDARD SPECIFICATION FOR WOVEN WIRE TEST SIEVE CLOTH AND TEST SIEVES ASTM E 11 - 09

				-	iance, Inspection			
(1)	(2)	(3)	(4)	(5)	(6)	(13)	(14)	(15)
Sieve De	signation	Nominal Sieve	± Y Variation for	+ X Maximum Variation	Resulting Maximum	Typical	Permissibl Ch	e Range o bice
Standard	Alternati∨e	Opening (in.)	Average Opening	for Opening	Individual Opening	Wire Diameter	Min	Max
millimeter		inches	millimeter	millimeter	millimeter	millimeter		
125	5 in.	5	3.66	4.51	129.51	8	6.8	9.2
106	4.24 in.	4.24	3.12	3.99	109.99	6.3	5.4	7.2
100	4 in.	4	2.94	3.82	103.82	6.3	5.4	7.2
90	3 1/2 in.	3.5	2.65	3.53	93.53	6.3	5.4	7.2
75	3 in.	3	2.22	3.09	78.09	6.3	5.4	7.2
63	2 1/2 in.	2.5	1.87	2.71	65.71	5.6	4.8	6.4
53	2.12 in.	2.12	1.58	2.39	55.39	5	4.3	5.8
50	2 in.	2	1.49	2.29	52.29	5	4.3	5.8
45	1 3/4 in.	1.75	1.35	2.12	47.12	4.5	3.8	5.2
37.5	1 1/2 in.	1.5	1.13	1.85	39.35	4.5	3.8	5.2
31.5	1 1/4 in.	1.25	0.95	1.63	33.13	4	3.4	4.6
26.5	1.06 in.	1.06	0.802	1.44	27.94	3.55	3	4.1
25	1.00 in.	1	0.758	1.38	26.38	3.55	3	4.1
22.4	7/8 in.	0.875	0.681	1.27	23.67	3.55	3	4.1
19	3/4 in.	0.750	0.579	1.13	20.13	3.15	2.7	3.5
	5/8 in.	0.625	0.490	0.99	16.99		2.7	3.6
16						3.15		
13.2	0.530 in.	0.530	0.406	0.86	14.06	2.8	2.4	3.2
12.5	1/2 in.	0.500	0.385	0.83	13.33	2.5	2.1	2.9
11.2	7/16 in.	0.438	0.346	0.77	11.97	2.5	2.1	2.9
9.5	3/8 in.	0.375	0.295	0.68	10.18	2.24	1.9	2.6
8	5/16 in.	0.312	0.249	0.60	8.60	2	1.7	2.3
6.7	0.265 in.	0.265	0.210	0.53	7.23	1.8	1.5	2.1
6.3	1/4 in.	0.250	0.197	0.51	6.81	1.8	1.5	2.1
5.6	No. 3 1/2	0.223	0.176	0.47	6.07	1.6	1.3	1.9
4.75	No. 4	0.187	0.150	0.41	5.16	1.6	1.3	1.9
4	No. 5	0.157	0.127	0.37	4.37	1.4	1.2	1.7
3.35	No. 6	0.132	0.107	0.32	3.67	1.25	1.06	1.5
2.8	No. 7	0.110	0.090	0.29	3.09	1.12	0.95	1.3
2.36	No. 8	0.0937	0.076	0.25	2.61	1	0.85	1.15
2	No. 10	0.0787	0.065	0.23	2.23	0.9	0.77	1.04
1.7	No. 12	0.0661	0.056	0.20	1.90	0.8	0.68	0.92
1.4	No. 14	0.0555	0.046	0.18	1.58	0.71	0.6	0.82
1.18	No. 16	0.0469	0.040	0.16	1.34	0.63	0.54	0.72
1	No. 18	0.0394	0.034	0.14	1.14	0.56	0.48	0.64
nicrometer		inches	micrometer	micrometer	micrometer	micrometer		
850	No. 20	0.0331	29.1	127	977	0.5	0.43	0.58
710	No. 25	0.0278	24.7	112	822	0.45	0.38	0.52
600	No. 30	0.0234	21.2	101	701	0.4	0.34	0.46
500	No. 35	0.0197	18.0	89	589	0.315	0.34	0.40
425	No. 40	0.0165	15.5	81	506	0.28	0.27	0.30
4∠≎ 355	No. 40 No. 45	0.0185	13.3	72	427	0.28	0.24	0.32 0.26
300			11.5		365	0.224		0.20
	No. 50	0.0117		65 50			0.17	
250	No. 60	0.0098	9.9	58	308	0.16	0.13	0.19
212	No. 70	0.0083	8.7	52	264	0.14	0.12	0.17
180	No. 80	0.0070	7.6	47	227	0.125	0.106	0.15
150	No. 100	0.0059	6.6	43	193	0.1	0.085	0.115
125	No. 120	0.0049	5.8	38	163	0.09	0.077	0.104
106	No. 140	0.0041	5.2	35	141	0.071	0.06	0.082
90	No. 170	0.0035	4.6	32	122	0.063	0.054	0.072
75	No. 200	0.0029	4.1	29	104	0.05	0.043	0.058
63	No. 230	0.0025	3.7	26	89	0.045	0.038	0.052
53	No. 270	0.0021	3.4	24	77	0.036	0.031	0.041
45	No. 325	0.0017	3.1	22	67	0.032	0.027	0.037
38	No. 400	0.0015	2.9	20	58	0.03	0.024	0.035
	No. 450	0.0012	2.7	18	50	0.028	0.023	0.033
32								
32 25	No. 500	0.0010	2.5	16	41	0.025	0.021	0.029

Column 3 - These numbers are only approximate but are in use for reference; the sieve shall be identified by the standard designation in millimeter or micrometers

Table 1

INTERNATIONAL STANDARDS ORGANIZATION (ISO PREFERRED NUMBER SERIES

R 20/3	R 20	* R 40/3	Equivalent in
R 20/3	-		inches
125	125	125	4.921
	112		4.409
		106	4.173
	100		3.937
90	90	90	3.543
	80		3.150
		75	2.953
	71		2.795
63	63	63	2.480
	56		2.205
		53	2.087
	50		1.969
45	45	45	1.772
	40		1.575
		37.5	1.476
	35.5		1.398
31.5	31.5	31.5	1.240
	28		1.102
		26.5	1.043
	25		0.984
22.4	22.4	22.4	0.882
	20		0.787
		19	0.748
	18		0.709
16	16	16	0.630
120040-0	14	2004	0.551
		13.2	0.520
	12.5		0.492
11.2	11.2	11.2	0.441
1943/08/5	10		0.394
		9.5	0.374
	9		0.354
8	8	8	0.315
	7.1		0.280
-		6.7	0.264
	6.3	(730)	0.248
5.6	5.6	5.6	0.220
1000000	5	2005050	0.197
		4.75	0.187
	4.5	4040 d7736	0.177
4	4	4	0.157
	3.55		0.140
		3.35	0.132
	3.15	17 (1 7 (1 7))	0.124
2.8	2.8	2.8	0.110
	2.5	1000	0.098
		2.36	0.093
	2.24		0.088
2	2	2	0.079
71 10	1.8		0.071
	1.0		0.071

Values in millimeters unless specified as micron (µ).

R 20/3	R 20	* R 40/3	Equivalent in
IX 20/0	N 20	N 40/0	inches
		1.7	0.0669
	1.6		0.0630
1.4	1.4	1.4	0.0551
	1.25		0.0492
		1.18	0.0465
6 A	1.12		0.0441
1	1	1	0.0394
	900µ		0.0354
		850µ	0.0335
	800µ		0.0315
710µ	710µ	710µ	0.0280
	630µ		0.0248
		600µ	0.0236
	560µ		0.0220
500µ	500µ	500µ	0.0197
· · · ·	450µ		0.0177
		425µ	0.0167
	400µ		0.0157
355µ	355µ	355µ	0.0140
(7.7.7.7.F)	315µ		0.0124
	P	300µ	0.0118
	280µ		0.0110
250µ	250µ	250µ	0.0098
2004	224µ	2000	0.0088
	p	212µ	0.0083
· · · · · ·	200µ		0.0079
180µ	180µ	180µ	0.0071
TOOM	160µ	TOOM	0.0063
	1000	150µ	0.0059
	140µ	тоор	0.0055
125µ	125µ	125µ	0.0049
1200	112µ	1200	0.0044
	112μ	106µ	0.0042
	100µ	τοομ	0.0039
90µ	90µ	90µ	0.0035
400	80µ	99M	0.0031
	-00p	75µ	0.0030
	71µ	, υμ	0.0028
63µ	63µ	63µ	0.0025
υσμ	56µ	- 00μ	0.0022
	Joop	53µ	0.0022
	50µ	υσμ	0.0021
45µ	45µ	45µ	0.0020
τυμ	40μ	μυτ	0.0018
	τομ	20	0.0015
R'10	360	38µ	0.0013
	36µ		0.0014
32µ	-		0.0013
25µ 20u			0.0010
20µ			0.0000

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* Same as ASTM E 11 USA Standard Sieve Series

R'10 = Tenth root of ten ratio

R 20 = Twentieth root of ten

R 20/3 = Every third number of R 20 Series

R 40/3 = Every third number of fortieth root of ten series

COMPARISON TABLE INTERNATIONAL TEST SIEVE SERIES

INTERNATIONAL ISO 3310-1:2000		RICAN E 11-01	C. C	TISH 0:2000	CANADA CGSB-8.2-M88		NCE IFX11-501	11-02-11-0-01-1	MANY 310-1:2000	JAPAI Jis
Aperture mm	Opening mm	Equiv. inch/No.	Aperture mm	Equiv. BS Mesh	Aperture mm	Aperture mm	Tamis No.	Aperture mm	Approx. DIN No.	Apertur mm
125.00	125.00	5"	125.00							-
112.00			112.00							
106.00	106.00	4.24"	106.00							
100.00	100.00	4"	100.00		100.00	100.00		100.00		
90.00	90.00	3 1/2"	90.00		90.00	90.00		90.00		
80.00			80.00			-				
75.00	75.00	3"	75.00							
71.00		Ū	71.00		71.00	71.00		71.00		71.00
63.00	63.00	2 1/2"	63.00		63.00	63.00		63.00		71.00
56.00	05.00	2 172	56.00		03.00	03.00		05.00		
	50.00	0.40	and the second		52.00	52.00		52.00		
53.00	53.00	2.12"	53.00		53.00	53.00		53.00		50.00
50.00	50.00	2"	50.00		50.00	50.00		50.00		50.00
45.00	45.00	1 3/4"	45.00		45.00	45.00		45.00		
40.00			40.00							
37.50	37.50	1 1/2"	37.50		-					G
35.50	and a second		35.50	с. С		and the second	а. С	a de la compa		
31.50	31.50	1 1/4"	31.50		31.50	31.50		31.50		
28.00			28.00		28.00	28.00		28.00		
26.50	26.50	1.06"	26.50							26.50
25.00	25.00	1.00"	25.00		25.00	25.00		25.00		3.3547.9525753
22.40	22.40	7/8"	22.40		22.40	22.40		22.40		22.40
20.00	22.40		20.00		20.00	20.00		20.00		22.44
19.00	19.00	3/4"	19.00		20.00	20.00		20.00		19.00
18.00	15.00	5/4	1.			10.00		10.00		19.00
	10.00	E /01	18.00		40.00	18.00		18.00		10.00
16.00	16.00	5/8"	16.00		16.00	16.00	2	16.00		16.00
14.00			14.00		14.00	14.00		14.00		
13.20	13.20	.530"	13.20							
12.50	12.50	1/2"	12.50		12.50	12.50		12.50		12.50
11.20	11.20	7/16"	11.20		11.20	11.20		11.20		11.20
10.00			10.00		10.00	10.00		10.00		
9.50	9.50	3/8"	9.50	· · · ·						9.50
9.00			9.00			9.00		9.00		
8.00	8.00	5/16"	8.00		8.00	8.00		8.00		8.00
7.10	0.00	0,10	7.10		7.10	7.10		7.10		0.00
6.70	6.70	.265"	6.70		7.10	7.10		7.10		6.70
						-				6.70
6.30	6.30	1/4"	6.30		6.30	6.30		6.30		
5.60	5.60	No.3 1/2	5.60	3	5.60	5.60		5.60		
5.00			5.00			5.00	38	5.00		5.00
4.75	4.75	No.4	4.75	3 1/2						
4.50			4.50			4.50		4.50		
4.00	4.00	No.5	4.00	4	4.00	4.00	37	4.00	2E	
3.55			3.55	5	HSLECK (SHOT	3.55	225.627.94	3.55	1709	
3.35	3.35	No.6	3.35							
3.15	0.00		3.15		3.15	3.15	36	3.15		
2.80	2.80	No.7	2.80	6	2.80	2.80	50	2.80		
	2.00	NU./		<u> </u>	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and the second s	25.00			
2.50	0.00	1005	2.50	×	2.50	2.50	35.00	2.50		
2.36	2.36	No.8	2.36	7						
2.24	11 Month and the	addings and some	2.24		And a provide a state	2.24		2.24	10.0	
2.00	2.00	No.10	2.00	8	2.00	2.00	34	2.00	3E	
1.80			1.80			1.80		1.80		
1.70	1.70	No.12	1.70	10						
1.60			1.60		1.60	1.60	33	1.60		
1.40	1.40	No.14	1.40	12	1.40	1.40	100000	1.40		1.40
1.25			1.25			1.25	32	1.25		
1.18	1.18	No.16	1.18	14		1.20	52	1.20	5	
	1.10	110.10		14	1 1 0	1.10			5	-
1.12	1	NI. 10	1.12	4.2	1.12	1.12		1.12	<u> </u>	
1.00	1.00	No.18	1.00	16	1.00	1.00	31	1.00	6	
900µ			900µ			900µ		900µ		
850µ	850µ	No.20	850µ	18						850µ
800µ			800µ		800µ	800µ	30	800µ		
710µ	710µ	No.25	710µ	22	710µ	710µ		710µ		710µ

COMPARISON TABLE INTERNATIONAL TEST SIEVE SERIES

INTERNATIONAL ISO 3310-1:2000		RICAN E 11-01	0.400.000.000	TISH 0:2000	CANADA CGSB-8.2-M88	1251 * K.0502	NCE NFX11-501	11-00111100014	MANY 310-1:2000	JAPAN JIS
130 3310-1.2000	Opening	E TI-OT Equiv.	Aperture	Equiv.	CG3D-0.2-1000	Aperture		Aperture	Approx.	Aperture
Aperture mm	mm	inch/No.	mm	BS Mesh	Aperture mm	mm	Tamis No.	mm	DIN No.	mm
630µ	- (Sector)		630µ			630µ	29	630µ		- (See 1. See
600µ	600µ	No.30	600µ	25		0.0405	2000	600µ	10	600µ
560µ	No. Contra	000000	560µ			560u		560µ	100	NEW COLOR
500µ	500µ	No.35	500µ	30	500µ	500µ	28	500µ	12	500µ
450µ			450µ			450µ		450µ		
425µ	425µ	No.40	425µ	36		5		430µ	14	425µ
400µ	22		400µ		400µ	400µ	27	400µ	16	- 22
355µ	355µ	No.45	355µ	44	355µ	355µ		355µ	U.A.H.C.A.	355µ
315µ	8		315µ		315µ	315µ	26	315µ		5
300µ	300µ	No.50	300µ	52		1	6 - K	300µ	20	300µ
280µ			280µ			280µ		280µ		
250µ	250µ	No.60	250µ	60	250µ	250µ	25	250µ	24	250µ
224µ	504500348	97507520000 GS	224µ	6.72507	C1-90041-1	224µ	20062.4	224µ	9324557	510500000
212µ	212µ	No.70	212µ	72		Shine of the		2 5 3 4 4 10 1 PO 2		212µ
200µ			200µ		200µ	200µ	24	200µ	30	
180µ	180µ	No.80	180µ	85	180µ	180µ	1422/1644	180µ	100.00	180µ
160µ	92. 1		160µ		6.25	160µ	23	160µ		35
150µ	150µ	No.100	150µ	100		-		150µ	40	150µ
140µ	1 (100 and 2 (1)		140µ	490.000	140µ	140µ		140µ		
125µ	125µ	No.120	125µ	120	125µ	125µ	22	125µ	50	125µ
112µ	1010 GACURAN	10120-A, MARCOLAV EDA1	112µ	64-104-0		112µ	0.01101	112µ	TLAC.	100 0400404
106µ	106µ	No.140	106µ	150						106µ
100µ	187		100µ		100µ	100µ	21	100µ	60	197
90µ	90µ	No.170	90µ	170	90µ	90µ		90µ	70	90µ
80µ			80µ			80µ	20	80µ		
75µ	75µ	No.200	75µ	200				75µ	80	75µ
71µ			71µ		71µ	71µ		71µ		
63µ	63µ	No.230	63µ	240	63µ	63µ	19	63µ		63µ
56µ			56µ		56µ	56µ		56µ	110	20
53µ	53µ	No.270	53µ	300			1			53µ
50µ	97.		50µ			50µ	18	50µ	120	96
45µ	45µ	No.325	45µ	350	45µ	45µ		45µ		45µ
40µ			40µ			40µ	17	40µ		
38µ	38µ	No.400	38µ	400	(V	12	9	6		38µ
36µ			36µ		36µ	36µ	2 D	36µ	130	-
32µ	32µ	No.450	32µ	440		32µ		32µ		32µ
25µ	25µ	No.500	25µ			25µ		25µ	200	
20µ	20µ	No.635	20µ			20µ		20µ		

RECOMMENDED REPRESENTATIVE BULK VOLUMES OF TEST SAMPLES Used in 8" (203mm) Testing Sieves

Standard Sieve Designa	ation	В	ulk Volume of Material
		Recommended Volume of Material for Test	Maximum Permitted Volume on Sieve on
Standard	Alternate	Sample	Completion of Sieving
25.0mm	1.00''	1800cm³	900cm ³
22.4mm	7/8''	1600cm³	800cm ³
19.0mm	3/4"	1400cm ³	700cm ³
16.0mm	5/8''	1000cm³	500cm ³
12.5mm	1/2"	800cm ³	400cm ³
11.2mm	7/16''	800cm ³	400cm ³
9.50mm	3/8''	600cm ³	300cm ³
8.00mm	5/16''	500cm ³	250cm ³
6.30mm	1/4"	400cm ³	200cm ³
5.60mm	No. 3 1/2	400cm ³	200cm ³
4.00mm	No. 5	350cm ³	150cm ³
2.80mm	No. 7	240cm ³	120cm ³
2.00mm	No. 10	200cm ³	100cm ³
1.40mm	No. 14	160cm ³	80cm ³
1.00mm	No. 18	140cm ³	70cm ³
710µ	No. 25	120cm ³	60cm ³
500µ	No. 35	100cm ³	50cm ³
355µ	No. 45	80cm ³	40cm ³
250µ	No. 60	70cm³	35cm ³
180µ	No. 80	60cm³	30cm ³
125µ	No. 120	50cm ³	25cm ³
90µ	No. 170	40cm ³	20cm ³
63µ	No. 230	35cm ³	17cm ³
45µ	No. 325	30cm ³	15cm ³
38µ	No. 400	25cm³	12cm ³

The recommended weight of material for a sieve test sample is calculated by multiplying the bulk volume figure in Column 3 by the particular bulk density in grams per cubic centimeter of the material, rounded out within a tolerance of ± 25 percent.

Aluminum, calcined 128 2.05 Garnet 168 2.68 Rubber, ground 2.0 0 Aluminum oxide 122 1.96 Glass beads 76 1.22 Phosphate rock 75 to 85 1 Aluminum shot 86 1.54 Glass, crushed 66 1.66 Salt, flake 61 0 Ammonium Initate 61 0.98 Granite, crushed 90 to 1.44 5 Salt, flake 66 1 Bauxite ore 75 to 85 1.20 to Gravel 90 to 1.44 Sand 90 to 1 Barcate of soda 57 0.91 Gypsum, crushed 150 1.60 Savdust 18 00 Boric acid 58 0.93 Kaolin 160 2.40 Saccoal 42 00 Calcium carbonate 49 0.79 Lime, syouth 68 1.09 Shot, metal 230 3 Calcium carbonate 79 0.91 Limestone, agricultural 70 <th>Material</th> <th>A∨erage lbs./ft.³</th> <th>e Weight g/cm³</th> <th>Material</th> <th>A∨erag lbs./ft.³</th> <th>e Weight g/cm³</th> <th>Material</th> <th>A∨erage lbs./ft.³</th> <th>e Weight g/cm³</th>	Material	A∨erage lbs./ft.³	e Weight g/cm³	Material	A∨erag lbs./ft.³	e Weight g/cm³	Material	A∨erage lbs./ft.³	e Weight g/cm³
Numinum, calcined 128 2.05 Gamet 168 2.69 Rubber, ground 20 0.0 Numinum oxide 122 1.96 Giass beads 76 1.22 Phosphate rock 75 to 85 1 Auminum suitate 61 0.98 Grantle, crushed 66 1.06 Sait, rock 66 1 Bauxite ore 75 to 85 1.20 Gravel 50 to 1.60 Sand, silica 90 to 1 Bandste ores 75 to 85 1.64 Gypsum, calcined 58 0.33 Sand, silica 90 to 1 Bandste ores 50 to 65 1.64 Gypsum, crushed 100 1.44 to 58 0.33 Sandust 180 2.40 Saccal 42 0 Barax 50 to 61 0.86 0.33 Kacin 180 2.40 Shate 100 1 1 160 2.40 Saccal 42 0 Barax 50 to 61 0.68 0.33 Kacin	Alumina	44	1.23	Fullers earth	30 to 40		Rubber, chopped	36	0.58
Numinum oxide 1/22 1/26 Class beads 7/5 1/22 Phosphate rock 7/5 to 25 1/5 Vuminum num ritrate 48 0.77 Glass cutalet 93 1.40 Salt, rock 66 1 Jammonium - sulfate 61 0.98 Granite, crushed 100 1.52 Salt, table 75 100 1.60 Salt, table 75 100 1.60 Sand 100 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1	luminum, calcined	128	2.05	Garnet	168		Rubber, ground	20	0.32
Numinum shot 96 1.54 Glass, outshed 66 1.06 Salt, flake 61 0.07 Numonium nitrate 61 0.89 Grantle, crushed 95 1.44 52 63 1.45 63 1.44 63 1.44 63 1.44 63 1.44 63 1.44 63 1.44 63 63 Sand, silica 90 to 1.44 Banxite ore 75 to 85 1.06 Gypsum, calcined 58 0.63 Sand, silica 90 to 1.44 100 1.00	Aluminum oxide	122	1.96	Glass beads	76	1.22	Phosphate rock	75 to 85	1.20 to 1.36
numonium - sulfate 61 0.98 Granite, crushed 95 to 100 1.20 1.60 Salt, table 75 1 Jauxite ore 75 to 88 1.20 to 1.36 Gravel 90 to 1.00 1.44 to 100 Sand, silica 90 to 100 1.44 to 100 Sand, silica 90 to 100 1 Sicarbonate of soda 57 0.91 Gypsum, crushed 90 to 100 1.44 to 100 Sawdust 18 0 Sorax 50 to 61 0.80 to 0.98 to 0.98 to 0.98 to 0.61 table Kaolin 160 2.40 Saeccal 42 0 Soria acid 58 0.93 Kaolin 160 2.56 Shale 100 1 Salcium carbide 75 1.20 Lime, ground 60 0.96 Silica, flour 27 0 Salcium horshet 49 0.79 Lime, storated 100 1.80 Saeton 20.40 Silica, flour 27 0 Salcium carbonate 75 1.23 Magnesite 106 1.96 Salciu S	luminum shot	96	1.54	Glass, crushed	66	1.06	Salt, flake	61	0.98
nummum - suitate of 0.98 Grante, grunded 100 1.60 Salt, table 75 1 Jauxite ore 75 to 85 1.20 to 1.36 Gravel 90 to 1.04 1.44 to 100 Sand, silica 90 to 90 to 1.00 1.44 to 1.00 Sand, silica 90 to 90 to 1.00 1.44 to 1.00 Sand, silica 90 to 90 to 1.00 1.44 to 1.00 Sawdust 1.8 0 barrax 50 to 61 0.80 to 0.98 Iron ore 120 to 1.20 to 2.40 1.82 to 1.82 Sawdust 1.8 0 barrax 50 to 61 0.80 to 0.98 Kaolin 160 2.56 Shale 100 1 calcium carbide 75 1.20 Lime, ground 60 0.96 Silica, flour 27 0 calcium carbide 75 1.20 Lime, sprated 25 0.40 5 5 5 6 0.00 5 5 5 6 0.00 5 5 5 6 0.00 5 5 5 6 0.00	Ammonium nitrate	48	0.77	Glass cullet	93	1.49	Salt, rock	66	1.06
Sauxite ore 75 to 86 1.20 to 1.38 Gravel 90 to 1.40 to 1.60 Sand 90 to 1.40 to 1.00 Bentonite 50 to 65 0.80 to 1.00 1.00 1.44 to 100 Sand, silica 90 to 1.44 to 100 1.00	Ammonium - sulfate	61	0.98	Granite, crushed			Salt, table	75	1.20
Sentonine 50 to 65 1.04 Gypsum, calcined 58 0.93 Sand, silical 100 1 Bicarbonate of soda 57 0.91 Gypsum, crushed 100 1.44 to 1.60 Sawdust 18 0 Borax 50 to 61 0.80 to 0.98 iron ore 120 to 1.92 to 2.40 to 1.92 to 1.92 to Seaccal 42 0 Barica add 58 0.93 Kaolin 160 2.56 Shale 100 1 Salatice 90 1.44 to 0.48 Kaolin 68 0.96 Silica, flour 27 0 Calcium carbide 75 1.20 Lime, syntated 25 0.40 Silica, gle 45 0 Calcium chloride 64 1.03 Limestone, agricultural 70 1.12 Soda ash, heavy 55 to 65 0.0 Calcium chloride 64 0.26 Magnetite 155 2.49 Soda ash, heavy 55 to 65 0.0 Calcium chloride 76 to 80 1.20 to 1	Bauxite ore	75 to 85		Gravel	90 to	1.44 to	Sand		1.44 to 1.60
Side at boats 57 0.91 Gypsum, crushed 100 1.80 Sawdust 13 0 Borax 50 to 61 0.80 to 0.98 fron ore 120 to 1.92 to 0.98 1.92 to 2.40 Seacoal 42 0 Boric acid 58 0.93 Kaolin 160 2.56 Shale 100 1 Calcitum carbinde 90 1.44 to 1.88 Kyanite 68 1.09 Shot, metal 230 3 Calcium carbinde 90 1.44 to 1.70 Lime, hydrated 25 0.40 Silica, flour 27 0 Calcium carbinde 64 1.03 Limestone, agricultural 70 1.12 Soda ash, light 25 to 35 0 Calcium phosphate 57 0.91 Limestone, agricultural 70 1.12 Soda ash, heavy 55 to 65 0 Carbon black 24 0.33 Magnetite 155 2.49 Sodium intrate 78 1 Calciuner portan 100 1.60 1.20 to<	Bentonite	50 to 65		Gypsum, calcined	58	0.93	Sand, silica		1.44 to 1.60
Jorax Su to of 1 0.88 Iron ore 150 2.40 Secold 4.2 0 Boric acid 58 0.93 Kaolin 160 2.56 Shale 100 1 Calcite 90 1.44 Kaolin 68 1.09 Shot, metal 230 3 Calcium carbonate 49 0.79 Lime, ground 60 0.96 Silica, gel 45 0 Calcium carbonate 49 0.79 Limestone, agricultural 70 1.12 Soda ash, light 25 to 35 0	3icarbonate of soda	57		Gypsum, crushed	100	1.60	Sawdust	18	0.29
Calcite 90 1.44 to 1.68 Kyanite 68 1.09 Shot, metal 230 3 Calcium carbinate 75 1.20 Lime, ground 60 0.96 Silica, flour 27 0 Calcium carbinate 49 0.79 Lime, hydrated 25 0.40 Silica, gel 45 0 Calcium carbinate 67 0.91 Limestone, crushed 100 1.60 1.60 Soda ash, light 25 to 35 0.40 Calcium phosphate 57 0.91 Limestone, agricultural 70 1.12 Soda ash, heavy 55 to 65 0.4 Carbon black 24 0.33 Magnesite 155 2.49 Soda, bicarbonate 57 0.0 Carbon black 100 1.44 to 136 2.24 Sodium nitrate 78 1 Carbon black 140 2.25 Marble, crushed 90 to 95 1.44 to 1.52 Sodium nitrate 78 1 Cang inturnincus 50 0.88	Borax	50 to 61		Iron ore			Seacoal	42	0.67
zacke 90 1.68 Kyante 68 1.09 Shot, metal 230 3 Calcium carbide 75 1.20 Lime, ground 60 0.96 Silica, flour 27 0 Calcium carbide 49 0.79 Lime, hydrated 25 0.40 Silica, flour 27 0 Calcium chloride 64 1.03 Limestone, crushed 85 to 1.36 to Soapstone, pulverized 40 0 Calcium phosphate 57 0.91 Limestone, agricultural 70 1.12 Soda ash, heavy 55 to 65 0 Carbon black 24 0.33 Magnesite 155 2.49 Soda ash, heavy 55 to 65 0 Carbon black 24 0.33 Magnetite 155 2.49 Soda ash, heavy 55 to 65 0 Calcium portland 100 1.40 Mangnetite 136 2.18 Sodium nitrate 78 1 Chement clinker 75 to 80 1.28 Metals, powdered <td>Boric acid</td> <td>58</td> <td>0.93</td> <td>Kaolin</td> <td>160</td> <td>2.56</td> <td>Shale</td> <td>100</td> <td>1.60</td>	Boric acid	58	0.93	Kaolin	160	2.56	Shale	100	1.60
Calcium carbide 75 1.20 Lime, ground 60 0.96 Silica, flour 27 0 Calcium carbonate 49 0.79 Lime, hydrated 25 0.40 Silica, flour 27 0 Calcium chloride 64 1.03 Limestone, crushed 85 to 1.36 to Soapstone, pulverized 40 0 0 Calcium phosphate 57 0.91 Limestone, agricultural 70 1.12 Soda ash, light 25 to 35 0.0 Carbon black 24 0.33 Magnesite 106 1.70 Soda ash, heavy 55 to 65 0.4 Cellulose powder 16 0.26 Magnetite 155 2.49 Sodium nitrate 78 1 Cement dinker 75 to 80 1.20 to Marble, crushed 90 to 95 1.44 to 1.52 Sodium plosphate 43 0 Chrome ore 140 2.25 Metals, powdered 5 Sodium sulfate 96 1 Cala, inthracite 55	Calcite	90		Kyanite	68	1.09	Shot, metal	230	3.69
Calcium carbonate 49 0.79 Lime, hydrated 25 0.40 Silica, gel 45 0 Calcium chloride 64 1.03 Limestone, crushed 100 1.60 Soapstone, pulverized 40 0 Calcium phosphate 57 0.91 Limestone, agricultural 70 1.12 Soda ash, light 25 to 35 0.40 Carbon black 24 0.33 Magnesite 106 1.70 Soda ash, heavy 55 to 65 1 Cellulose powder 16 0.26 Magnesite 155 2.49 Soda, bicarbonate 57 0 Cement, portland 100 1.44 to Marganese ore 136 2.18 Sodium phosphate 43 0 Chrome ore 140 2.25 Metals, powdered Sodium sulfate 96 1 Clay 30 to 75 0.48 to Aluminum 80 1.28 Steel grit 228 3 Coal, anthracite 55 0.88 Copper -lead 364 <td< td=""><td>Calcium carbide</td><td>75</td><td></td><td>Lime, ground</td><td>60</td><td>0.96</td><td>Silica, flour</td><td>27</td><td>0.43</td></td<>	Calcium carbide	75		Lime, ground	60	0.96	Silica, flour	27	0.43
Calcium chionde 64 1.03 Limestone, crushed 100 1.60 Soapstone, pulvenized 40 0 Calcium phosphate 57 0.91 Limestone, agricultural 70 1.12 Soda ash, light 25 to 35 0.4 Carbon black 24 0.33 Magnesite 106 1.70 Soda ash, heavy 55 to 65 0.4 Cellulose powder 16 0.26 Magnetite 155 2.49 Soda, bicarbonate 57 0 Cement, portland 90 to 1.44 to Manganese ore 120 to 1.92 to Sodium nitrate 78 1 Chement clinker 75 to 80 1.20 to 1.28 Marble, crushed 90 to 95 1.44 to Sodium phosphate 43 0 Charge 30 to 75 0.48 to Aluminum 80 1.28 Steel grit 228 3 Coal, anthracite 55 0.88 Copper-lead 364 5.84 Sugar, granulated 5 0.64 Coake, petroleum				general and the second s					0.72
Calcium phosphate 57 0.91 Limestone, agricultural 70 1.12 Soda ash, light 25 to 35 0.4 Carbon black 24 0.33 Magnesite 106 1.70 Soda ash, heavy 55 to 65 0.4 Cellulose powder 16 0.26 Magnetite 155 2.49 Soda ash, heavy 55 to 65 0.4 Cellulose powder 16 0.26 Magnetite 155 2.49 Soda, bicarbonate 57 0 Cement, portland 100 1.60 Manble, crushed 90 to 95 1.44 to 1.42 to Sodium nitrate 78 1 Chrome ore 140 2.25 Metals, powdered 50 Sodium sulfate 96 1 Chrome ore 140 2.25 Metals, powdered 3.20 Steel grit 228 3 Coal, anthracite 55 0.88 Copper -lead 364 5.84 Stugar, granulated 5 0 0 0 0 0 0 0 <	Calcium chloride	64	1.03	Limestone, crushed			Soapstone, pulverized	40	0.64
Carbon Diack 24 0.33 Magnesite 106 1.70 Soda ash, heavy So to bs 1 Cellulose powder 16 0.26 Magnetite 155 2.49 Soda, bicarbonate 57 0 Dement, portland 90 to 1.44 to 100 1.60 Manganese ore 120 to 1.92 to Sodium nitrate 78 1 Dement clinker 75 to 80 1.20 to Marble, crushed 90 to 95 1.44 to Sodium nitrate 96 1 Chrome ore 140 2.25 Metals, powdered Sodium sulfate 96 1 Cala, anthracite 55 0.88 Copper 169 2.71 Stone, crushed 85 to 95 1 Coal, anthracite 50 0.88 Copper-lead 364 5.84 Sugar, powdered 37 0 Coal, bituminous 50 0.88 Copper-lead 364 5.84 Sugar, powdered 37 0 Coake, petroleum 25 to 40 0.40 to	Calcium phosphate	57	0.91	Limestone, agricultural			Soda ash, light	25 to 35	0.40 to 0.56
Cellulose powder 16 0.26 Magnetite 155 2.49 Soda, bicarbonate 57 0 Cement, portland 90 to 1.44 to Manganese ore 120 to 1.92 to Sodium nitrate 78 1 Cement clinker 75 to 80 1.20 to Marble, crushed 90 to 95 1.44 to Sodium nitrate 96 1 Chrome ore 140 2.25 Metals, powdered Sodium suffate 96 1 Clay 30 to 75 0.48 to Aluminum 80 1.28 Steel grit 228 3 Coal, anthracite 55 0.88 Copper lead 364 5.84 Sugar, granulated 5 0 Coal, bituminous 50 0.88 Copper lead 364 5.84 Sugar, powdered 37 0 Coal, bituminous 50 0.88 Copper lead 364 5.84 Sugar, powdered 37 0 Coapper ore 100 to 1.60 to Nickel 263 4.22	Carbon black	24	0.33	Magnesite	106	1.70	Soda ash, hea∨y	55 to 65	0.88 to 1.04
Dement, portland 90 to 1.44 to Manganese ore 120 to 1.92 to Sodium nitrate 78 1 Dement clinker 75 to 80 1.20 to 1.28 Marble, crushed 90 to 95 1.44 to Sodium phosphate 43 0 Chrome ore 140 2.25 Metals, powdered Sodium sulfate 96 1 Clay 30 to 75 0.48 to Aluminum 80 1.28 Steel grit 228 3 Coal, anthracite 55 0.88 Copper 169 2.71 Stone, crushed 85 to 95 1.2 Coal, bituminous 50 0.88 Copper-lead 364 5.84 Sugar, powdered 37 0 Coal, bituminous 50 0.88 Copper-lead 364 5.84 Sugar, powdered 37 0 Coake petroleum 25 to 40 0.40 to Nickel 263 4.22 Sulphur, crushed 50 to 65 0.4 Corper ore 100 to 1.60 to 2.40 <t< td=""><td>Cellulose powder</td><td>16</td><td>0.26</td><td>Magnetite</td><td>155</td><td>2.49</td><td>Soda, bicarbonate</td><td>57</td><td>0.91</td></t<>	Cellulose powder	16	0.26	Magnetite	155	2.49	Soda, bicarbonate	57	0.91
Jerment clinker 75 to 80 1.28 Marble, crushed 90 to 95 1.52 Sodium phosphate 4.3 0 Chrome ore 140 2.25 Metals, powdered Sodium sulfate 96 1 Clay 30 to 75 0.48 to 1.20 Aluminum 80 1.28 Steel grit 228 3 Coal, anthracite 55 0.88 Copper 169 2.71 Stone, crushed 85 to 95 1 Coal, bituminous 50 0.88 Copper-lead 364 5.84 Sugar, granulated 5 0 Coal, bituminous 50 0.88 Copper-lead 364 5.84 Sugar, powdered 37 0 Coal, bituminous 50 0.40 Iron 243 3.90 Sugar, powdered 37 0 Coke breeze 25 to 40 0.64 Nickel 263 4.22 Sulphur, crushed 50 to 65 1 Copper ore 100 to 1.60 to Stainless steel 240 3.85				5 (95.45)				78	1.25
Clay $30 \text{ to } 75$ $0.48 \text{ to} \\ 1.20$ Aluminum 80 1.28 Steel grit 228 33 Coal, anthracite 55 0.88 Copper 169 2.71 Stone, crushed $85 \text{ to } 95$ 1.26 Coal, bituminous 50 0.88 Copper-lead 364 5.84 Sugar, granulated 5 0.66 Coke breeze $25 \text{ to } 35$ 0.40 Iron 243 3.90 Sugar, powdered 37 00 Coke, petroleum $25 \text{ to } 40$ 0.40 to 0.64 Nickel 263 4.22 Sulphur, crushed $50 \text{ to } 65$ $1.60 \text{ to } 1.60 \text{ to } 1.60 \text{ to } 2.40$ Copper ore $100 \text{ to } 1.60 \text{ to } 2.40$ Stainless steel 240 3.85 Talc, powder 34 00 Coquina shell 80 1.28 Tantalum 300 4.80 Talc, granular 44 0 Corn starch 40 0.64 Mica 42 0.67 Traprock, crushed $105 \text{ to } 1.60 t$	Cement clinker	75 to 80		Marble, crushed	90 to 95		Sodium phosphate	43	0.69
Clay 30 to 75 1.20 Aluminum 80 1.28 Steel grit 228 3 Coal, anthracite 55 0.88 Copper 169 2.71 Stone, crushed 85 to 95 1 Coal, bituminous 50 0.88 Copper-lead 364 5.84 Sugar, granulated 5 0 Coke breeze 25 to 35 0.40 Iron 243 3.90 Sugar, powdered 37 0 Coke, petroleum 25 to 40 0.40 to Nickel 263 4.22 Sulphur, crushed 50 to 65 1 Copper ore 100 to 1.60 to Stainless steel 240 3.85 Talc, powder 34 0 Coquina shell 80 1.28 Tantalum 300 4.80 Talc, granular 44 0 Corn starch 40 0.64 Mica 42 0.67 Traprock, crushed 110 1 Dicalcium phosphate 64 1.03 Oyster shells, ground 29 <	Chrome ore	140	2.25	Metals, powdered			Sodium sulfate	96	1.54
Coal, anthracte 55 0.88 Copper 169 2.71 Stone, crushed 85 to 95 1 Coal, bituminous 50 0.88 Copper-lead 364 5.84 Sugar, granulated 5 0 Coke breeze 25 to 35 0.40 Iron 243 3.90 Sugar, powdered 37 0 Coke, petroleum 25 to 40 0.64 Nickel 263 4.22 Sulphur, crushed 50 to 65 1 Copper ore 100 to 1.60 to Stainless steel 240 3.85 Talc, powder 34 0 Coquina shell 80 1.28 Tantalum 300 4.80 Talc, granular 44 0 Corn starch 40 0.64 Mica 42 0.67 Traprock, crushed 105 to 1.6 Diatomaceous earth 31 0.50 Ore, sintered 144 1.83 Triple superphosphate, 110 1 Diolomite, crushed 90 to 1.44 to Perlite ore	Clay	30 to 75		Aluminum	80	1.28	Steel grit	228	3.66
Coke breeze 25 to 35 0.40 Iron 243 3.90 Sugar, powdered 37 0 Coke, petroleum 25 to 40 0.64 Nickel 263 4.22 Sulphur, crushed 50 to 65 1 Copper ore 100 to 1.60 to Stainless steel 240 3.85 Talc, powder 34 0 Coquina shell 80 1.28 Tantalum 300 4.80 Talc, granular 44 0 Corn starch 40 0.64 Mica 42 0.67 Traprock, crushed 105 to 1.6 Diatomaceous earth 31 0.50 Ore, sintered 144 1.83 Triple superphosphate, 110 1 Diatomaceous earth 31 0.50 Ore, sintered 144 1.83 Triple superphosphate, 100 1.6 Dolomite, crushed 90 to 1.44 to Perlite ore 65 to 75 1.04 to 1.02 Tungsten carbide 550 8 Feldspar, crushed 65 to 84	Coal, anthracite	55	0.88	Copper	169	2.71	Stone, crushed	85 to 95	1.36 to 1.52
Coke, petroleum 25 to 40 0.40 to 0.64 Nickel 263 4.22 Sulphur, crushed 50 to 65 1 Copper ore 100 to 150 1.60 to 2.40 Stainless steel 240 3.85 Talc, powder 34 0 Coquina shell 80 1.28 Tantalum 300 4.80 Talc, granular 44 0 Corn starch 40 0.64 Mica 42 0.67 Traprock, crushed 105 to 110 1.6 Diatomaceous earth 31 0.50 Ore, sintered 144 1.83 Triple superphosphate, Dicalcium phosphate 64 1.03 Oyster shells, ground 29 0.47 granular 64 1 Dolomite, crushed 90 to 1.04 to 100 1.60 Perlite ore 65 to 75 1.04 to 1.20 Tungsten carbide 550 8 Ferrophosphorous 196 3.14 Polyethylene pellets 36 0.58 Vermiculite ore 80 1 Fier clay 80 1.28 Polyeth	Coal, bituminous	50	0.88	Copper-lead	364	5.84	Sugar, granulated	5	0.80
Coke, petroleum25 to 40 0.64 Nickel2634.22Sulphur, crushedS0 to 651Copper ore100 to1.60 toStainless steel2403.85Talc, powder340Coquina shell801.28Tantalum3004.80Talc, granular440Corn starch400.64Mica420.67Traprock, crushed105 to1.6Diatomaceous earth310.50Ore, sintered1441.83Triple superphosphate,Dicalcium phosphate641.03Oyster shells, ground290.47granular641Dicalcium phosphate641.03Oyster shells, ground290.47granular641Dicalcium phosphate641.03Oyster shells, ground290.47granular641Dicalcium phosphate641.03Oyster shells, ground290.47granular641Dicalcium phosphate641.03Perlite ore65 to 751.04 to 1.20Tungsten carbide5508Feldspar, crushed65 to 841.35Plaster, calcined641.03Urea prills430Ferrophosphorous1963.14Polyethylene powder180.29Wood chips130Fiour, wheat240.38Poly vinyl chloride300.48Zinc dust1442Flour, maize370.59Potash77 <td>Coke breeze</td> <td>25 to 35</td> <td></td> <td>Iron</td> <td>243</td> <td>3.90</td> <td>Sugar, powdered</td> <td>37</td> <td>0.59</td>	Coke breeze	25 to 35		Iron	243	3.90	Sugar, powdered	37	0.59
Copper ore1502.40Stainless steel2403.85Talc, powder340Coquina shell801.28Tantalum3004.80Talc, granular440Corn starch400.64Mica420.67Traprock, crushed $\frac{105 \text{ to}}{110}$ 1.60Dicalcium phosphate641.03Oyster shells, ground290.47granular641Dicalcium phosphate641.03Oyster shells, ground290.47granular641Dolomite, crushed90 to1.44 to 1001.60Perlite ore65 to 751.04 to 1.20Tungsten carbide5508Feldspar, crushed65 to 841.35Plaster, calcined641.03Urea prills430Ferrophosphorous1963.14Polyethylene pellets360.58Vermiculite ore801Fire clay801.28Polyethylene powder180.29Wood chips130Flour, wheat240.38Poly vinyl chloride300.48Zinc dust1442Flour, maize370.59Potash771.23Zirconium oxide2003	Coke, petroleum	25 to 40		Nickel	263	4.22	Sulphur, crushed	50 to 65	0.80 to 1.04
Coquina shell801.28Tantalum3004.80Talc, granular440Corn starch400.64Mica420.67Traprock, crushed $\begin{array}{c} 105 \text{ to} \\ 110 \end{array}$ 1.60Diatomaceous earth310.50Ore, sintered1441.83Triple superphosphate,Dicalcium phosphate641.03Oyster shells, ground290.47granular641Dicalcium phosphate641.03Oyster shells, ground290.47granular641Dolomite, crushed90 to1.44 to 100Perlite ore65 to 751.04 to 1.20Tungsten carbide5508Feldspar, crushed65 to 841.55Plaster, calcined641.03Urea prills430Ferrophosphorous1963.14Polyethylene pellets360.58Vermiculite ore801Fire clay801.28Polyethylene powder180.29Wood chips130Flour, wheat240.38Poly vinyl chloride300.48Zinc dust1442Flour, maize370.59Potash771.23Zirconium oxide2003	Copper ore			Stainless steel	240	3.85	Talc, powder	34	0.55
Corn starch40 0.64 Mica42 0.67 Iraprock, crushed 110 1 Diatomaceous earth31 0.50 Ore, sintered144 1.83 Triple superphosphate,Dicalcium phosphate64 1.03 Oyster shells, ground29 0.47 granular641Dolomite, crushed90 to 1.44 toPerlite ore 65 to 75 1.04 toTungsten carbide 550 8Feldspar, crushed 65 to 84 1.04 to1.35Plaster, calcined64 1.03 Urea prills430Ferrophosphorous196 3.14 Polyethylene pellets 36 0.58 Vermiculite ore 80 1Fire clay80 1.28 Polyethylene powder 18 0.29 Wood chips 13 0Flour, wheat24 0.38 Poly vinyl chloride 30 0.48 Zinc dust 144 2Flour, maize 37 0.59 Potash 77 1.23 Zirconium oxide 200 3	Coquina shell			Tantalum	300	4.80	Talc, granular	44	0.71
Dicalcium phosphate641.03 90 toOyster shells, ground290.47 1.04 to 1.20granular641Dolomite, crushed90 to1.44 to 100Perlite ore65 to 751.04 to 1.20Tungsten carbide5508Feldspar, crushed65 to 841.35Plaster, calcined641.03Urea prills430Ferrophosphorous1963.14Polyethylene pellets360.58Vermiculite ore801Fire clay801.28Polyethylene powder180.29Wood chips130Flour, wheat240.38Poly vinyl chloride300.48Zinc dust1442Flour, maize370.59Potash771.23Zirconium oxide2003	Corn starch	40	0.64	Mica	42	0.67			1.68 to 1.76
Dolomite, crushed90 to 1001.44 to 1.60Perlite ore65 to 751.04 to 1.20Tungsten carbide5508Feldspar, crushed65 to 841.04 to 1.35Plaster, calcined641.03Urea prills430Ferrophosphorous1963.14Polyethylene pellets360.58Vermiculite ore801Fire clay801.28Polyethylene powder180.29Wood chips130Flour, wheat240.38Poly vinyl chloride300.48Zinc dust1442Flour, maize370.59Potash771.23Zirconium oxide2003	Diatomaceous earth	31	0.50	Ore, sintered	144	1.83	Triple superphosphate,		
Joiomite, crushed1001.60Perilte ore65 to 751.20Tungsten carbide5508Feldspar, crushed65 to 841.04 to 1.35Plaster, calcined641.03Urea prills430Ferrophosphorous1963.14Polyethylene pellets360.58Vermiculite ore801Fire clay801.28Polyethylene powder180.29Wood chips130Flour, wheat240.38Poly vinyl chloride300.48Zinc dust1442Flour, maize370.59Potash771.23Zirconium oxide2003	Dicalcium phosphate			Oyster shells, ground	29		granular	64	1.03
Feirophosphorous196 3.14 Polyethylene pellets36 0.58 Vermiculite ore801Fire clay801.28Polyethylene powder18 0.29 Wood chips130Flour, wheat240.38Poly vinyl chloride30 0.48 Zinc dust1442Flour, maize370.59Potash771.23Zirconium oxide2003	Dolomite, crushed		1.60	Perlite ore	65 to 75		Tungsten carbide	550	8.82
Ferrophosphorous 196 3.14 Polyethylene pellets 36 0.58 Vermiculite ore 80 1 Fire clay 80 1.28 Polyethylene powder 18 0.29 Wood chips 13 0 Flour, wheat 24 0.38 Poly vinyl chloride 30 0.48 Zinc dust 144 2 Flour, maize 37 0.59 Potash 77 1.23 Zirconium oxide 200 3	eldspar, crushed	65 to 84		Plaster, calcined	64	1.03	Urea prills	43	0.69
Fire clay 80 1.28 Polyethylene powder 18 0.29 Wood chips 13 0 Flour, wheat 24 0.38 Poly vinyl chloride 30 0.48 Zinc dust 144 2 Flour, maize 37 0.59 Potash 77 1.23 Zirconium oxide 200 3	-errophosphorous	196		Polyethylene pellets	36	0.58	Vermiculite ore	80	1.28
Flour, maize 37 0.59 Potash 77 1.23 Zirconium oxide 200 3	는 , CUMPER 전문(ENTRE CODECUMPTION AND ENDERS)			en en ser en	18		Children and Chi	13	0.21
	Flour, wheat			Poly vinyl chloride	30		Zinc dust	144	2.31
90 to 1.44 to provide the test of	lour, maize			Potash	77		Zirconium oxide	200	3.22
Fluorspar 9010 1.4410 Potassium carbonate 79 1.27 Zirconium sand 162 2 Fly ash 49 0.79 Pumice 40 0.64		120	1.92				Zirconium sand	162	2.60

BULK DENSITY OF PULVERIZED MATERIALS IN FREELY POURED CONDITION^a

^a - Where a single figure is given, it represents an actual weight of a typical average sample of the material recorded by a research laboratory; therefore, the figure can be expected to vary from sample to sample of the same material.

LIST OF ASTM PUBLISHED STANDARDS ON SIEVE ANALYSIS PROCEDURES FOR SPECIFIC MATERIAL OR INDUSTRIES

Material ASTM Designation The of Standard Aggregates C117-95 Standard Test Method for Materials Finer Than 75-µm (No.200) Sieve in Mineral Aggregates by Washing C136-01 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates of C142-97 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates for C0330-00 Standard Specifications for Lightweight Aggregates for Concrete Masony Units C330-00 Standard Specifications for Lightweight Aggregates for Concrete Masony Units C330-01 Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregate Asbestos D2568-86 (1997) Standard Test Method for Oberen Analysis of Absebstos Fiber No D2847-88 (1997) Carbon black D1508-99 Standard Test Method for Carbon Black-Pelleted-Fines and Attrition No D2847-88 (1997) Carbon black D1508-99 Standard Test Method for Carbon Black-Pelleted-Fines and Attrition No D1511-00 Standard Test Method for Carbon Black-Pelleted-Fines and Attrition No D Carbon black D1508-98 Standard Test Method for Fineness of Hydraulic Cerement by the 150-µm (No.100) No.1 Carbon black D1514-00 Standard Test Method for Fineness of Hydraulic Cerement by the 45-µm (No.325) Sieve Carbon black D160-98 Standard	ve No. or Siz Range No.200
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Meinzer II Frequently Asked Questions

1. What are the vibrations per minute for the Meinzer II?

A 60Hz machine will produce 3,600 vibrations per minute.

2. What sort of maintenance is required for the Meinzer II?

The Meinzer II just needs to be kept clean. No lubrication or resetting of parts is required. Any alteration or unauthorized maintenance will void the warranty.

3. Can test sieves for the Meinzer II be calibrated/certified?

Yes. Please contact our Customer Service Team at 800.621.4778 or <u>meinzerII@cscscientific.com</u>.

4. How many sieves can fit in on the Meinzer II?

Please refer to Chart 4A for details on the Meinzer II sieve capacity.

Chart 4A

Meinzer II Sieve Capacity

	Half Height (min/max)	Full Height (min/max)	Pan	Cover
8" (203.2mm)or 200mm	4/15	2/8	1	1

5. My Meinzer II is making a lot of noise and the sieve stack is rattling in the machine. What is wrong?



The sieve stack may have been improperly secured. Failing to fully clamp as in **Figure 5A** or adequately tighten the straps as in **Figure 5B** will cause the sieve stack to rattle. For instructions on how to properly build and secure your test sieve stack, please refer to step 8 in <u>Performing a Sieve Analysis</u> <u>using the Meinzer II Testing Sieve Shaker</u> in the front of this manual.



Figure 5B

Figure 5A

6. What is the warranty on the Meinzer II?

The Meinzer II carries a one year limited warranty against defective material and workmanship.

7. What is an extended rim pan? Do I need this for my test?

An extended rim pan is manufactured with a skirt around the bottom so it can be received by a sieve below it. This will allow the user to run multiple samples in one stack. The extended rim pan can be inserted mid-stack to collect fines of sample one and the bottom pan will collect fines from sample two. See **Figure 7A** for an example.



Figure 7A

8. The fuse has blown in the machine. How do I change it?

The fuse must be replaced with one of identical rating. To replace the fuse, perform the following:

- Disconnect the machine from the power supply.
- Unscrew the central cap of the fuse holder.
- Remove the holder and fuse.
- Remove the blown fuse from the fuse holder and place the new fuse in the metal spring in the central cap.
- Fit the cap and fuse back into the holder and screw in completely. **Do not over tighten.**

9. Does CSC Scientific have a repair facility nearby?

CSC Scientific is pleased to offer telephone repair support for Meinzer II Testing Sieve Shakers. Contact a member of our Tech Support Team at 800.621.4778. Alternatively, machines may be sent in to our location in Fairfax, VA for extensive repair or refurbishing. **Contact us for information on how to prepare your machine for receipt and service by our Repair Department.**

10. My questions have still not been answered.

For further technical support, please contact our Tech Support Team at 800.621.4778 or at meinzerII@cscscientific.com. We'd be glad to assist.

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