

Client: United Mining Industries

Received 12 June 2003

Modelled after: 2408

8

1200

1

200

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Supplemental Information

End-face marking: United Mining Industries 32 5x2250 MR + FR - 11 38 50 - 352810 - MADE IN U.S.A.

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Chapter 11: *Math*

Order of variables - not specified

Test material received: 15.02.16

[illegible]

equipment and input profile, 08-11-2003													
board number	equipment			test unit				input depth					
	Δ_1	Δ_2	Δ_3	1	2	3	4	average value	5	6	7	8	average value
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	
1	1	1	0.8	55	57	55	56	56	1.33	1.49	1.57	0.64	1.20
2	1	1	0.9	55	56	56	56	55	1.21	1.18	0.98	0.99	1.09
3	2	1	1.2	55	56	52	55	54	0.81	0.82	1.30	1.28	1.11
average value			1.0					54					1.13

test equipment:
 oscilloscope: Tektronix 400-10 (100 MHz)
 data pump: K20-10 (100 MHz)
 laser profile counter: Micro Digital Methods, LTD (100 MHz)
 oscilloscope: Tektronix 400-10 (100 MHz)
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weight per cent area, density, collapse load, deflection & resistance to elasticity:													water absorption:									
test material number:	length	width:	weight empty	empty air - O	weight per unit area	density	effective span	collapse load (N)	deflection (mm)	modulus of elasticity	test material number & direction of testing	test period		length	width	thickness	weight empty - O	weight soaked 24hrs	weight lost after 2 hours	total absorption	water absorbed (mm)	
	(mm)	(mm)	(g)	(g)	(kg/m ²)	(mm ³)	(mm)	(N)	(mm)	(N/mm ²)		from	to	(mm)	(mm)	(mm)	(g)	(g)	(g)	(g)	(mm)	
1 L	400	289	1159.8	1157.3	8.7	792	230	856.4	10.95	2096	1 front view	12.36	15.26	127.7	124.8	13.8	188.7	189.6	197.0	1.4	0.9	
1 T	401	289	1165.7	1162.9	8.7	791	300	305.4	10.68	2481	1 back view	27.30	88.20	127.2	124.1	13.8	189.2	193.2	194.7	1.0	0.8	
2 L	400	261	1166.6	1164.3	8.6	795	350	724.2	12.65	3070	2 front view	88.31	11.31	122.7	127.0	12.8	154.5	151.5	153.1	1.0	0.6	
2 T	400	261	1168.0	1164.4	8.6	799	350	305.5	11.45	3397	2 back view	16.34	13.84	137.2	135.2	12.4	147.9	147.5	149.0	1.0	0.6	
3 L	403	280	1175.5	1173.3	8.7	794	350	274.8	11.64	3116	3 front view	13.50	15.29	129.8	124.5	12.8	166.8	166.9	169.4	1.0	0.6	
3 T	403	280	1179.8	1175.3	8.8	712	350	275.7	7.80	2790	3 back view	19.51	29.21	128.9	124.9	12.8	168.9	163.1	165.4	1.6	1.1	

summary of test results														
Seed number	Seed mass			Seed volume (ml)	Seed shape			Seed weight (g)	Seed density (g/cm³)	Seed shape index (SI)	Seed shape index (SI)	Seed shape index (SI)	Seed shape index (SI)	Seed shape index (SI)
	length (mm)	width (mm)	thickness (mm)		width (mm)	depth (mm)	width (mm)							
1	2481	1201	62.7	0.89	54.8	1.00	0.7	182	484.4	2064	303.4	5381	0.99	0.99
2	2480	1202	62.7	0.89	54.8	1.00	0.6	178	474.2	2070	306.5	5487	0.99	0.98
3	2481	1201	62.7	0.89	54.8	1.00	0.8	188	494.4	2118	311.8	5706	0.99	1.01
Average value	2481	1201	62.7	0.89	54.8	1.00	0.7	182	484.4	2064	303.4	5381	0.99	0.99
Seed mass (mg)	2481	1201	62.7	0.89	54.8	1.00	0.7	182	484.4	2064	303.4	5381	0.99	0.99
Seed volume (ml)	2481	1201	62.7	0.89	54.8	1.00	0.7	182	484.4	2064	303.4	5381	0.99	0.99
Seed density (g/cm³)	2481	1201	62.7	0.89	54.8	1.00	0.7	182	484.4	2064	303.4	5381	0.99	0.99
Seed shape index (SI)	2481	1201	62.7	0.89	54.8	1.00	0.7	182	484.4	2064	303.4	5381	0.99	0.99
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Seed shape index (SI)	2481	1201	62.7	0.89	54.8	1.00	0.7	182	484.4	2				