



**LAMPIRAN**

# LAMPIRAN 1 DOKUMENTASI PENELITIAN



Alat pirolisis fixed bed



Penimbangan Serbuk Kayu 200 gram



Moisture Analyzer



Aktivasi Zeolit 400°C selama 1 jam



Proses pengujian kadar air zeolit



Proses pengujian kadar air serbuk kayu



### LAMPIRAN 2 FOTO TAR HASIL PIROLISIS



Tar 26 ml



Tar 44 ml



Tar 57 ml



Tar 63 ml



Tar 67 ml



Tar 69 ml



Tar 74 ml



### LAMPIRAN 3 DATA PENGUJIAN KADAR AIR SERBUK KAYU

Temperatur 250 °C			
No.	Berat awal (gr)	Berat akhir (gr)	Kadar Air (%)
1	12.33	12.23	0.81
2	11.75	11.62	1.11
3	14.15	13.88	1.91
Rata-Rata			1.28

Temperatur 350 °C			
No.	Berat awal (gr)	Berat akhir (gr)	Kadar Air (%)
1	15.47	15.21	1.68
2	15.01	14.72	1.93
3	15.23	14.95	1.84
Rata-rata			1.82

Temperatur 450 °C			
No.	Berat awal (gr)	Berat akhir (gr)	Kadar Air (%)
1	14.88	14.64	1.61
2	14.95	14.72	1.54
3	14.5	14.28	1.52
Rata-rata			1.56

Temperatur 500 °C			
No.	Berat awal (gr)	Berat akhir (gr)	Kadar Air (%)
1	15.02	14.77	1.66
2	15.47	15.19	1.81
3	15.11	14.89	1.46
Rata-rata			1.64

Temperatur 600 °C			
No.	Berat awal (gr)	Berat akhir (gr)	Kadar Air (%)
1	15.84	15.63	1.33
2	15.62	15.33	1.86
3	15.5	15.34	1.03
Rata-rata			1.40

Temperatur 700 °C			
No.	Berat awal (gr)	Berat akhir (gr)	Kadar Air (%)
1	15.06	14.78	1.86
2	15.14	14.89	1.65
3	15.35	15.09	1.69
Rata-rata			1.73

Temperatur 800 °C			
No.	Berat awal (gr)	Berat akhir (gr)	Kadar Air (%)
1	15.22	14.94	1.84
2	15.56	15.27	1.86
3	15.41	15.15	1.69
Rata-rata			1.80

