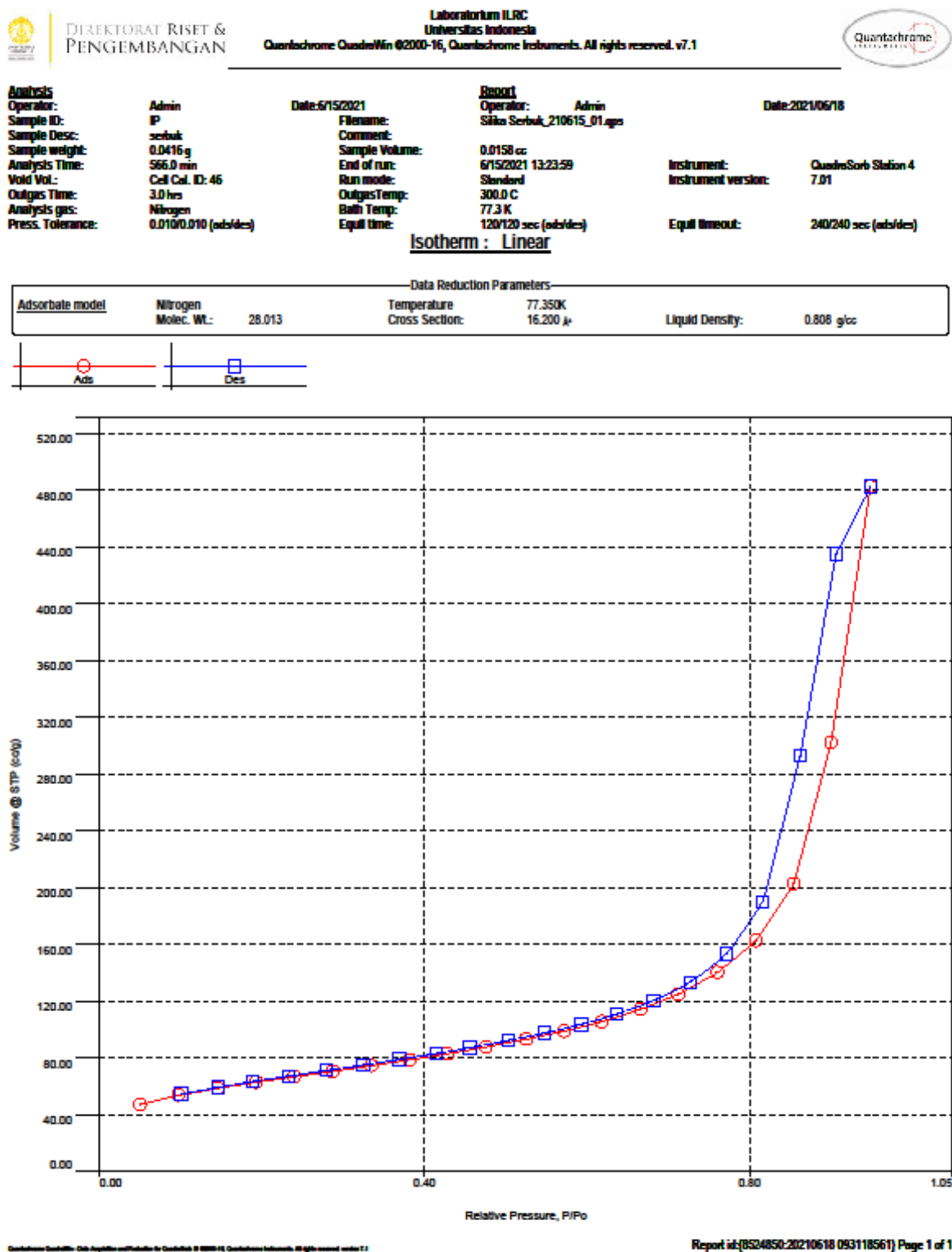


LAMPIRAN

Lampiran 1. Hasil analisis BET terhadap Grafik Isoterm Linear Silika



Lampiran 2. Hasil analisis BET terhadap Grafik Multi Point Silika



DIREKTORAT RISET &
PENGEMBANGAN

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Universitas Indonesia
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Analysis

Operator: Admin
Sample ID: IP
Sample Desc: serbuk
Sample weight: 0.0416 g
Analysis Time: 566.0 min
Void Vol.: Cell Cal. ID: 46
Outgas Time: 3.0 hrs
Analysis gas: Nitrogen
Press. Tolerance: 0.010/0.010 (ads/des)

Date: 6/15/2021

Filename: Sika Serbuk_210615_01.gps
Sample Volume: 0.0158 cc
End of run: 6/15/2021 13:23:59
Run mode: Standard
Outgas Temp: 300.0 C
Bath Temp: 77.3 K
Equil time: 120/120 sec (ads/des)

Report

Operator: Admin
Sample ID: Sika Serbuk_210615_01.gps

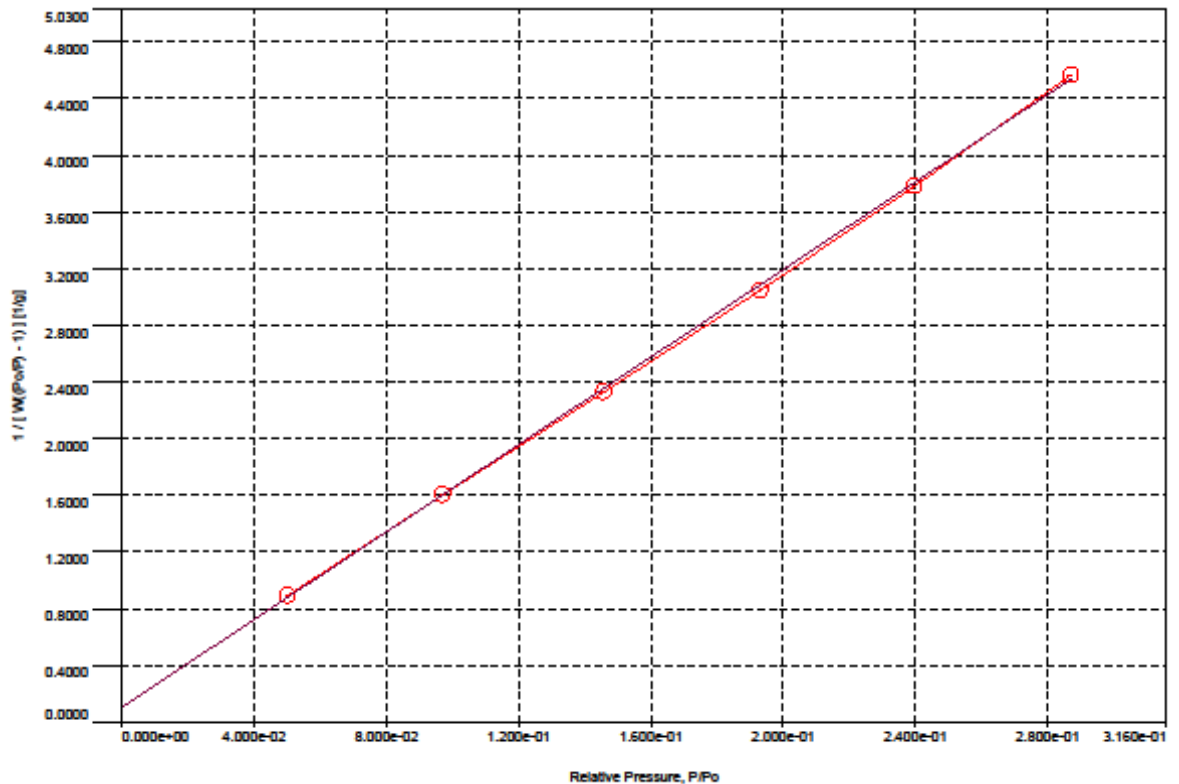
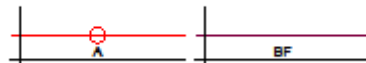
Date: 2021/06/18

Instrument: QuadriSorb Station 4
Instrument version: 7.01

Equil timeout: 240/240 sec (ads/des)

Multi-Point BET Plot

Data Reduction Parameters			
Adsorbate model	Nitrogen	Temperature	77.350K
	Molec. Wt.: 28.013	Cross Section:	16.200 Å ²
		Liquid Density:	0.808 g/cc

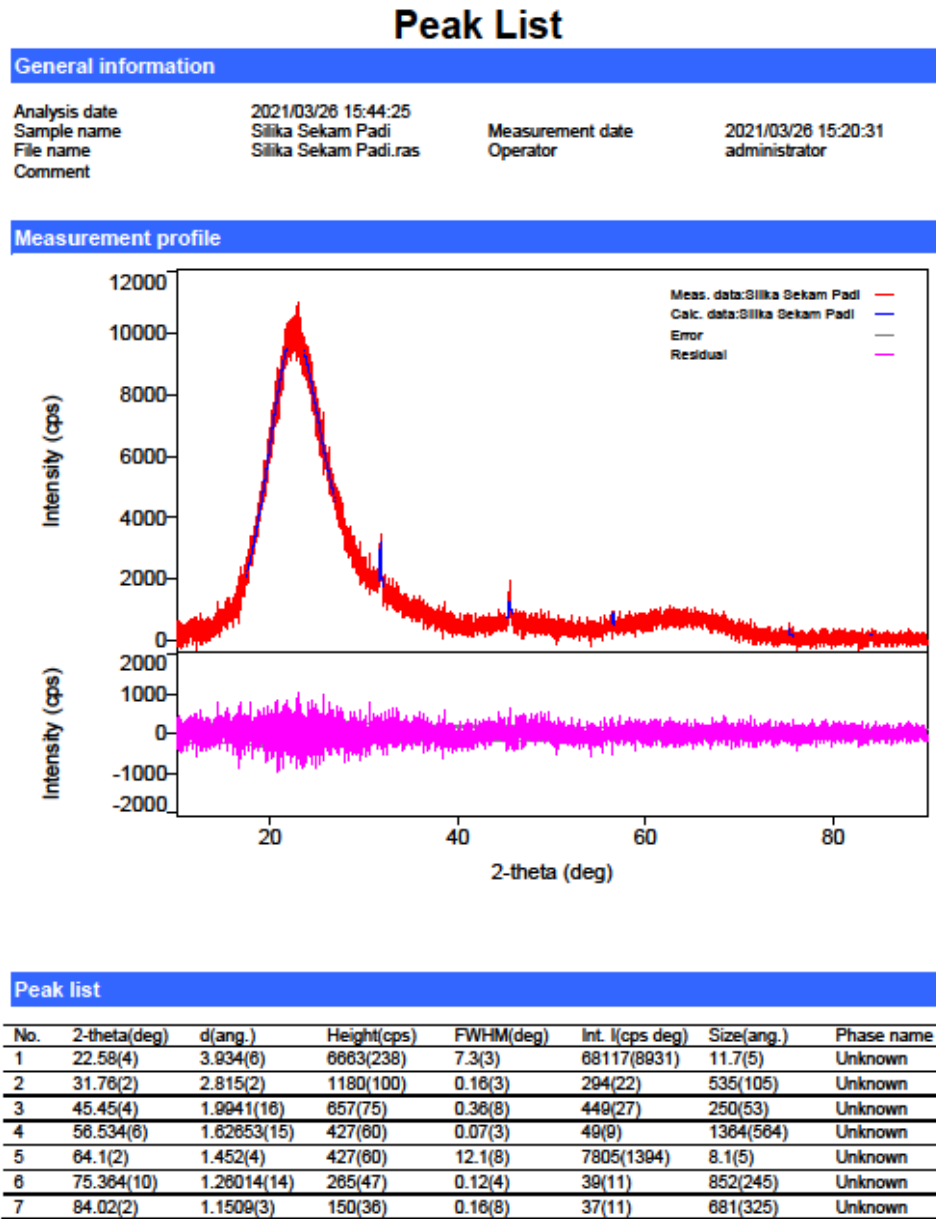


BET summary	
Slope =	15.435 1/g
Intercept =	1.009e-01 1/g
Correlation coefficient, r =	0.999814
C constant =	153.915
Surface Area =	224.166 m ² /g

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Lampiran 3. Hasil analisis XRD sampel silika



Lampiran 4. Hasil analisis XRF terhadap kandungan senyawa pada abu sekam padi

XRF ABU SEKAM PADI

File name SPIV335_Si2_nu
Sample name SPIV335_Si2

Date analyzed #
Sample type Oxide Powder
Component type Oxide
Matching library
mg/cm
Sample weight thickness 238,2231 2
Sample film corr. P.P.Film
Impurity corr.
Helium atmos. corr. Yes

Component	Result	Unit	El. line	Intensity	Analyzing depth(mm)
Al2O3	0,1547	mass%	Al-KA	0,0643	0,0073
SiO2	97,0506	mass%	Si-KA	38,6407	0,0103
SO3	0,374	mass%	S -KA	0,1687	0,0074
K2O	0,1818	mass%	K -KA	0,1412	0,022
CaO	1,4649	mass%	Ca-KA	1,6565	0,0293
Fe2O3	0,7488	mass%	Fe-KA	1,4672	0,1278
ZnO	0,0252	mass%	Zn-KA	0,1819	0,2958
Total	100	mass%			

Lampiran 5. Hasil analisis XRF terhadap kandungan senyawa pada silika hasil metode sol-gel

XRF SILIKA SOL-GEL										
File name	SPIV335_Si1_nu									
Sample name	SPIV335_Si1									
	#####									
Date analyzed	#									
Sample type	Oxide Powder									
Component type	Oxide									
Matching library										
					mg/cm					
Sample weight thickness	334,1971	2								
Sample film corr.	P.P.Film									
Impurity corr.										
Helium atmos. corr.	Yes									
Component	Result	Unit	El. line	Intensity	Analyzing depth(mm)					
SiO2	99,2002	mass%	Si-KA	27,7831	0,0106					
P2O5	0,1471	mass%	P -KA	0,0245	0,0055					
Cl	0,1286	mass%	Cl-KA	0,1558	0,0098					
K2O	0,1986	mass%	K -KA	0,1026	0,022					
CaO	0,2176	mass%	Ca-KA	0,1699	0,0293					
Fe2O3	0,0512	mass%	Fe-KA	0,0719	0,1321					
RuO2	0,0568	mass%	Ru-KA	0,6239	3,1025					
Total	100,0001	mass%								

Lampiran 6. Persyaratan mutu kain tenun untuk kemeja

ASTM D.3477-95a, *Standard performance for Men's and Boy's woven dress shirt fabrics.*

No.	Jenis Uji	Satuan	Persyaratan	Keterangan
1	Kekuatan Tarik kain per 2,5 cm ¹⁾	N	107,9	Minimum
		Kg	11,0	
2	Kekuatan sobek ¹⁾	N	6,9	Minimum
		Kg	0,7	
3	Tahan selip benang dalam kain pada jahitan (bukaan 6 mm) ¹⁾	N	78,5	Minimum
		Kg	8,0	
4	Perubahan dimensi ¹⁾			
	4.1 Setelah pencucian dengan pengeringan	%	2,0	Maksimum
	4.2 Setelah pencucian kering ²⁾	%	2,0	Maksimum
5	Kenampakan kain setelah pencucian berulang ³⁾	DP	3,5	Minimum
6	Ketahanan luntur warna terhadap ⁴⁾			
	6.1 Pencucian 40 °C - Perubahan warna ⁵⁾ - Penodaan ⁶⁾		4 3-4	Minimum
	6.2 Pencucian kering ²⁾ - Perubahan warna		4	
	6.3 Keringat asam dan basa - Perubahan warna ⁵⁾ - Penodaan ⁶⁾		4 3-4	Minimum
	6.4 Gosokan - Kering ⁶⁾ - Basah ⁶⁾		4 3-4	
	6.5 Sinar ⁷⁾		4	
7	Kandungan formaldehida bebas - Dewasa - Anak-anak	ppm	75	Maksimum
		ppm	20	
1) Berlaku untuk arah lusi dan pakan;				

- 2) Berlaku untuk kain yang mengalami pencucian kering;
- 3) Berlaku untuk kain tekan-awet (*durable–press*);
- 4) Berlaku untuk kain berwarna;
- 5) Skala abu-abu;
- 6) Skala penodaan;
- 7) Standar wol biru.

