LAMPIRAN 1

Data Hasil XRD TiO_2 Pengeringan Rw= 2 M= 0,1

: R2M01100.DI 10-Dec-2008 12:24

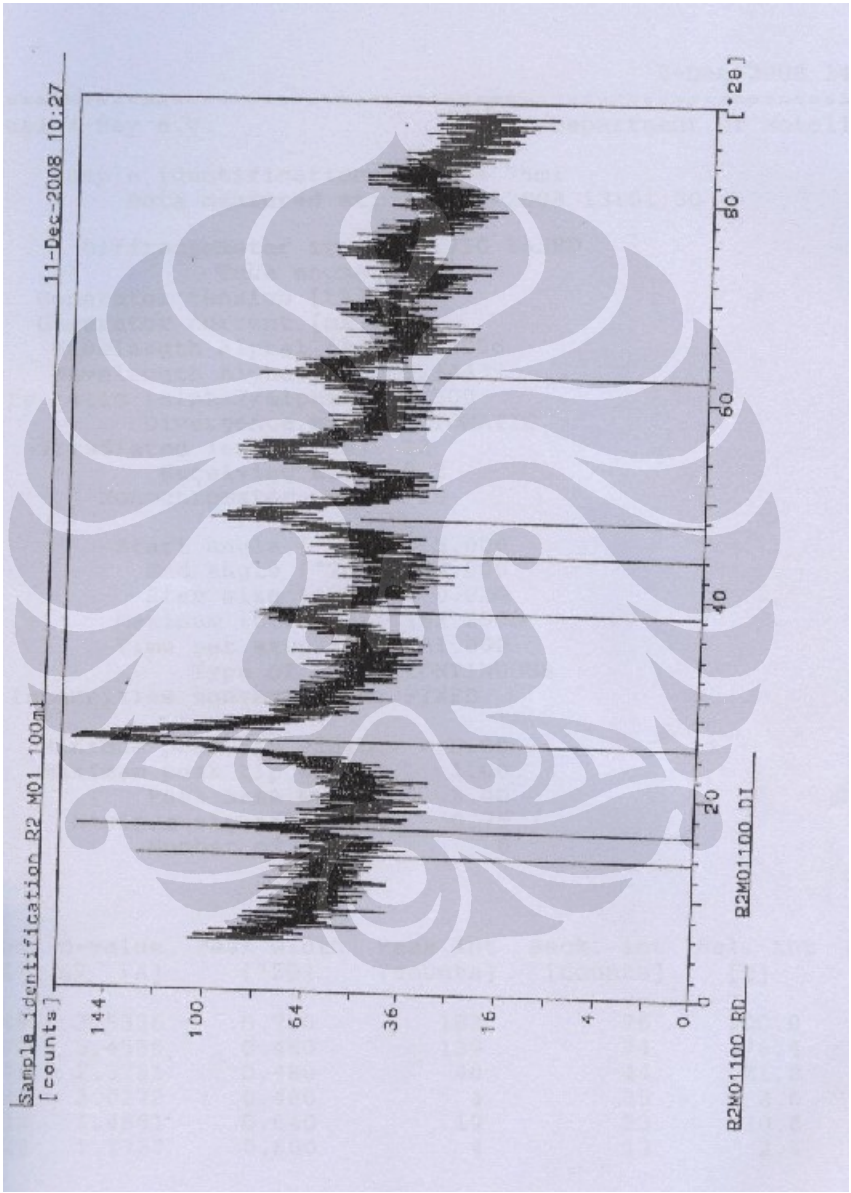
Philips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification	R2 M01 100ml
Data measured at	10-Dec-2008 11:14:00
Diffractometer type	PW1710 BASED
Tube anode	Cu
Generator tension [kV]	40
Generator current [mA]	30
Wavelength Alpha1 [Å]	1.54056
Wavelength Alpha2 [Å]	1.54439
Intensity ratio (alpha2/alpha1)	0.500
Divergence slit	AUTOMATIC
Irradiated length [mm]	12
Receiving slit	0.2
Monochromator used	YES
Start angle [°2θ]	5.000
End angle [°2θ]	89.000
Step size [°2θ]	0.020
Maximum intensity	67.2400
Time per step [s]	1.000
Type of scan	CONTINUOUS
Intensities converted to	FIXED
Minimum peak tip width	0.00
Maximum peak tip width	1.00
Peak base width	2.00
Minimum significance	0.75
Number of peaks	7

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
13.630	6.4913	6.5074	0.640	17	112	25.0	0.78
16.375	5.4088	5.4222	0.240	67	92	100.0	0.95
25.140	3.5394	3.5482	0.800	67	96	100.0	2.34
38.275	2.3496	2.3554	0.640	14	41	20.4	0.77
44.015	2.0556	2.0607	0.200	7	28	10.8	0.82
47.565	1.9101	1.9149	0.800	15	35	22.6	1.43
62.270	1.4897	1.4934	0.800	6	24	9.3	0.75

LAMPIRAN 2

Kurva Hasil Mesin XRD TiO_2 Pengeringan Rw= 2 M= 0,1



LAMPIRAN 3

Data Hasil XRD TiO_2 Pengeringan Rw= 2 M= 0,4

: R2M0475M.DI 5-Dec-2008 14:11

Philips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification: R2 M04 75ml
Data measured at: 5-Dec-2008 13:01:00

Diffractometer type: PW1710 BASED
Tube anode: Cu
Generator tension [kV]: 40
Generator current [mA]: 30
Wavelength Alpha1 [Å]: 1.54056
Wavelength Alpha2 [Å]: 1.54439
Intensity ratio (alpha2/alpha1): 0.500
Divergence slit: AUTOMATIC
Irradiated length [mm]: 12
Receiving slit: 0.2
Monochromator used: YES

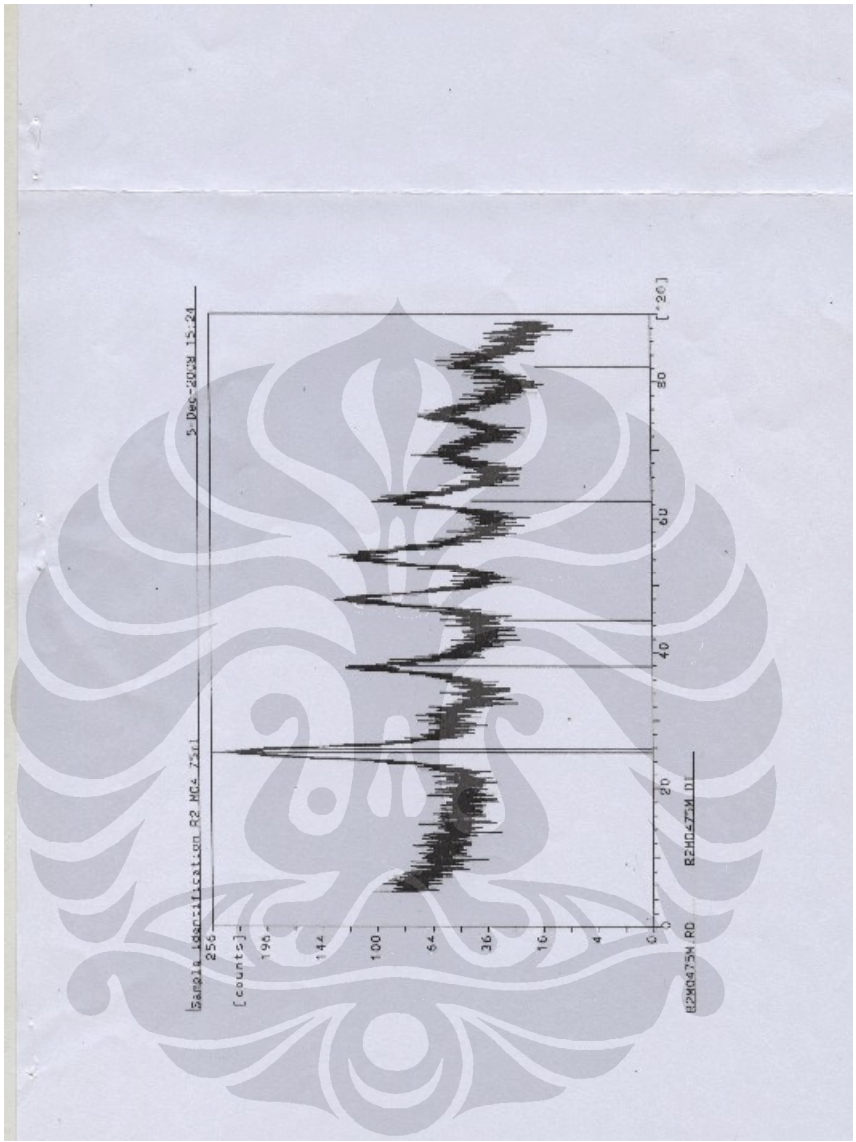
Start angle [°2θ]: 5.000
End angle [°2θ]: 89.000
Step size [°2θ]: 0.020
Maximum intensity: 182.2500
Time per step [s]: 1.000
Type of scan: CONTINUOUS
Intensities converted to: FIXED

Minimum peak tip width: 0.00
Maximum peak tip width: 1.00
Peak base width: 2.00
Minimum significance: 0.75
Number of peaks: 6

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
25.245	3.5249	3.5336	0.720	182	76	100.0	4.43
25.825	3.4470	3.4556	0.480	139	74	76.4	1.01
37.945	2.3693	2.3751	0.480	40	44	21.8	1.53
44.780	2.0222	2.0272	0.480	4	25	2.0	1.01
62.520	1.4844	1.4881	0.640	19	23	10.6	1.20
82.280	1.1708	1.1737	0.800	4	13	2.4	1.09

LAMPIRAN 4

Kurva Hasil Mesin XRD TiO_2 Pengeringan Rw= 2 M= 0,4



LAMPIRAN 5

Data Hasil XRD TiO_2 Pengeringan Rw= 3,5 M= 0,1

File: R35M0110.DI 10-Dec-2008 13:37

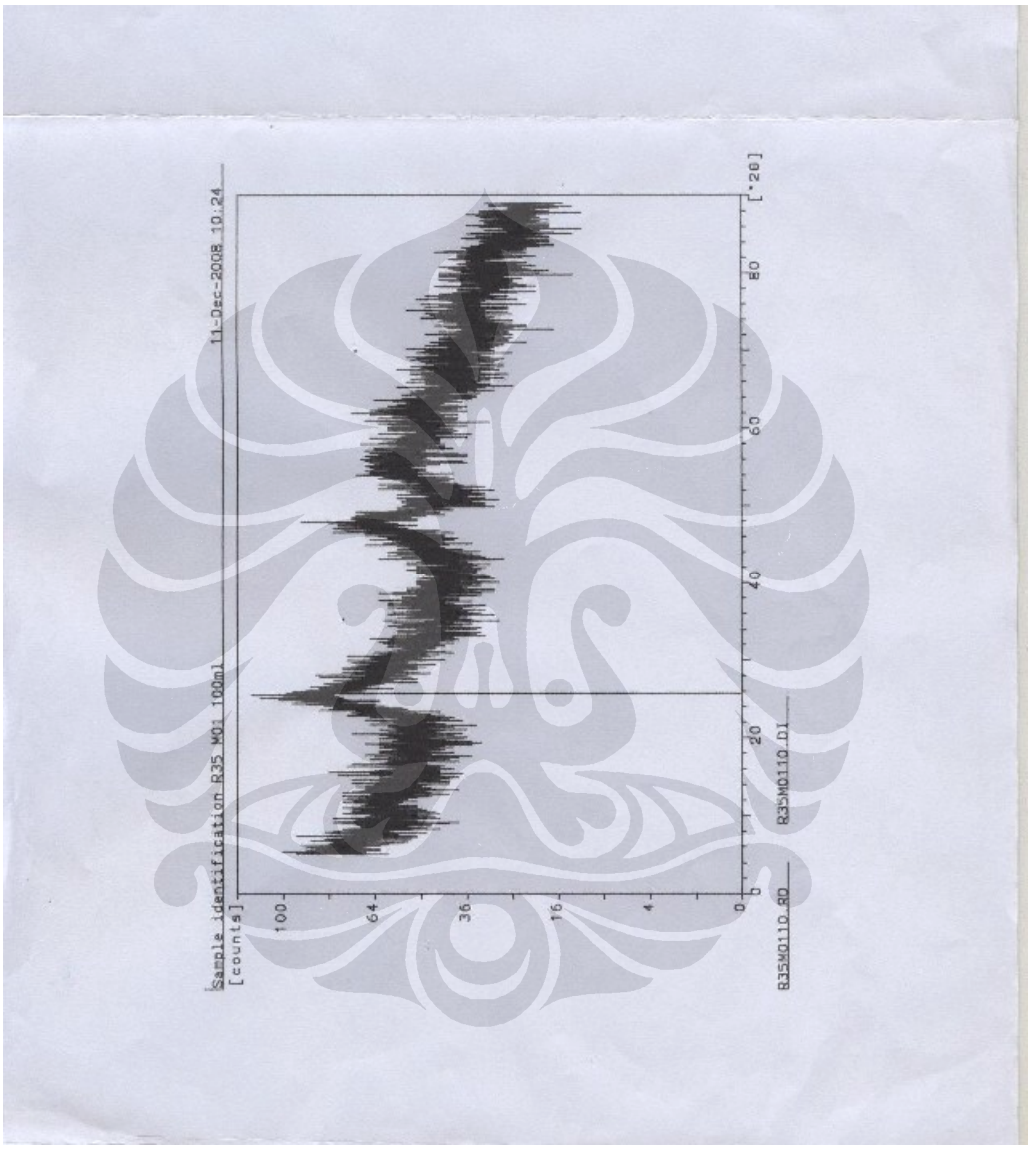
Philips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification	R35 M01 100ml
Data measured at	10-Dec-2008 12:25:00
Diffractometer type	PW1710 BASED
Tube anode	Cu
Generator tension [kV]	40
Generator current [mA]	30
Wavelength Alpha1 [Å]	1.54056
Wavelength Alpha2 [Å]	1.54439
Intensity ratio (alpha2/alpha1)	0.500
Divergence slit	AUTOMATIC
Irradiated length [mm]	12
Receiving slit	0.2
Monochromator used	YES
Start angle [°2θ]	5.000
End angle [°2θ]	89.000
Step size [°2θ]	0.020
Maximum intensity	21.1600
Time per step [s]	1.000
Type of scan	CONTINUOUS
Intensities converted to	FIXED
Minimum peak tip width	0.00
Maximum peak tip width	1.00
Peak base width	2.00
Minimum significance	0.75
Number of peaks	1

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
25.745	3.4576	3.4661	0.960	21	77	100.0	1.53

LAMPIRAN 6

Kurva Hasil Mesin XRD TiO_2 Pengeringan Rw= 3,5 M= 0,1



LAMPIRAN 7

Data Hasil XRD TiO_2 Pengeringan Rw= 3,5 M= 0,4

: R35M0475.DI 10-Dec-2008 11:10

Philips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification: R35 M04 75ml
Data measured at: 10-Dec-2008 10:00:00

Diffractometer type: PW1710 BASED
Tube anode: Cu
Generator tension [kV]: 40
Generator current [mA]: 30
Wavelength Alpha1 [Å]: 1.54056
Wavelength Alpha2 [Å]: 1.54439
Intensity ratio (alpha2/alpha1): 0.500
Divergence slit: AUTOMATIC
Irradiated length [mm]: 12
Receiving slit: 0.2
Monochromator used: YES

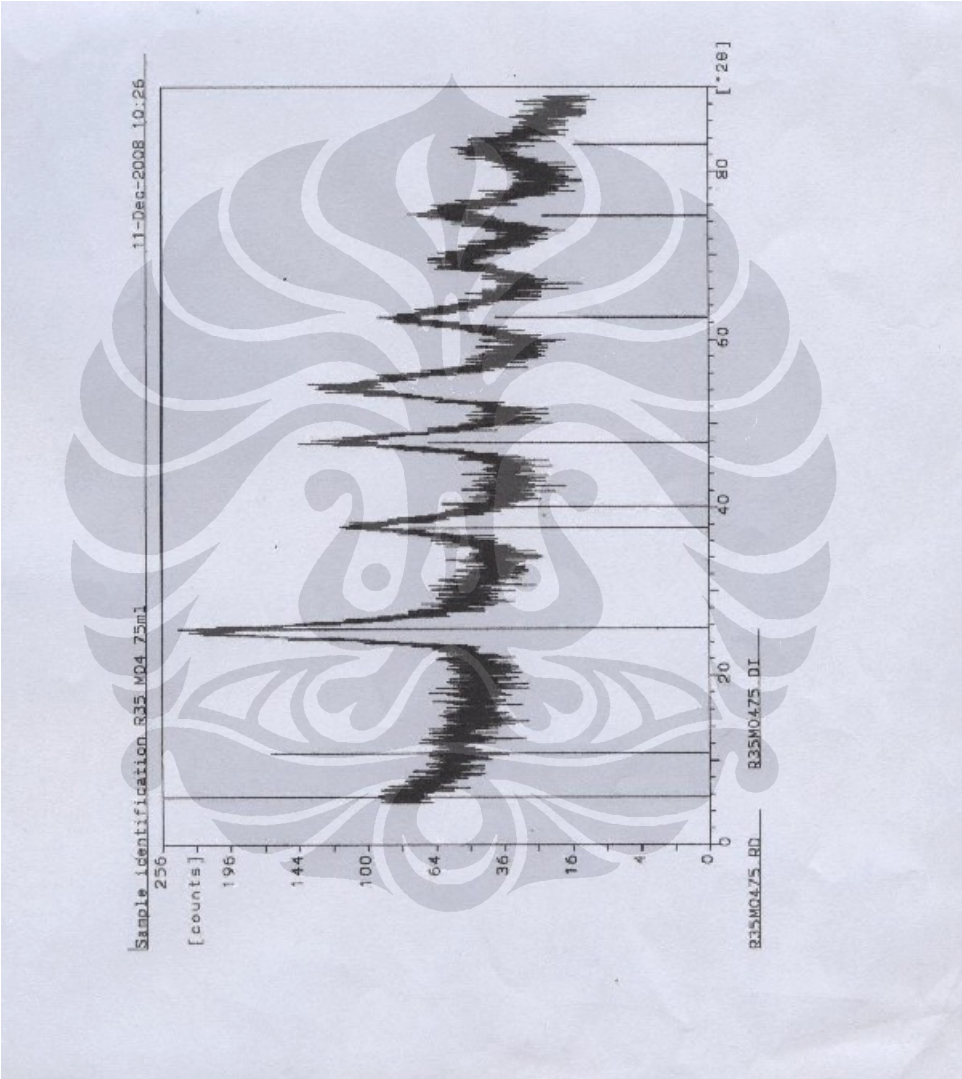
Start angle [°2θ]: 5.000
End angle [°2θ]: 89.000
Step size [°2θ]: 0.020
Maximum intensity: 148.0400
Time per step [s]: 1.000
Type of scan: CONTINUOUS
Intensities converted to: FIXED

Minimum peak tip width: 0.00
Maximum peak tip width: 1.00
Peak base width: 2.00
Minimum significance: 0.75
Number of peaks: 9

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
5.675	15.5601	15.5988	0.960	66	350	44.1	0.94
10.900	8.1102	8.1303	0.200	27	137	18.2	0.82
25.590	3.4781	3.4868	0.400	149	92	100.0	1.15
37.645	2.3875	2.3934	0.400	41	36	27.5	1.03
40.155	2.2438	2.2494	0.100	7	28	4.9	0.77
47.725	1.9041	1.9088	0.800	34	34	22.6	2.88
62.630	1.4820	1.4857	0.640	16	23	10.7	1.08
74.730	1.2692	1.2724	0.960	7	17	4.5	1.83
83.235	1.1598	1.1627	0.960	4	12	2.7	0.81

LAMPIRAN 8

Kurva Hasil Mesin XRD TiO_2 Pengeringan Rw= 3,5 M= 0,4



LAMPIRAN 9

Data Hasil XRD TiO_2 Anil Rw= 2 M= 0,1

R2M01150.DI 5-Dec-2008 11:11

'hilips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification: R2 M01 150C
Data measured at: 5-Dec-2008 10:01:00

Diffractometer type: PW1710 BASED
Tube anode: Cu
Generator tension [kV]: 40
Generator current [mA]: 30
Wavelength Alpha1 [Å]: 1.54056
Wavelength Alpha2 [Å]: 1.54439
Intensity ratio (alpha2/alpha1): 0.500
Divergence slit: AUTOMATIC
Irradiated length [mm]: 12
Receiving slit: 0.2
Monochromator used: YES

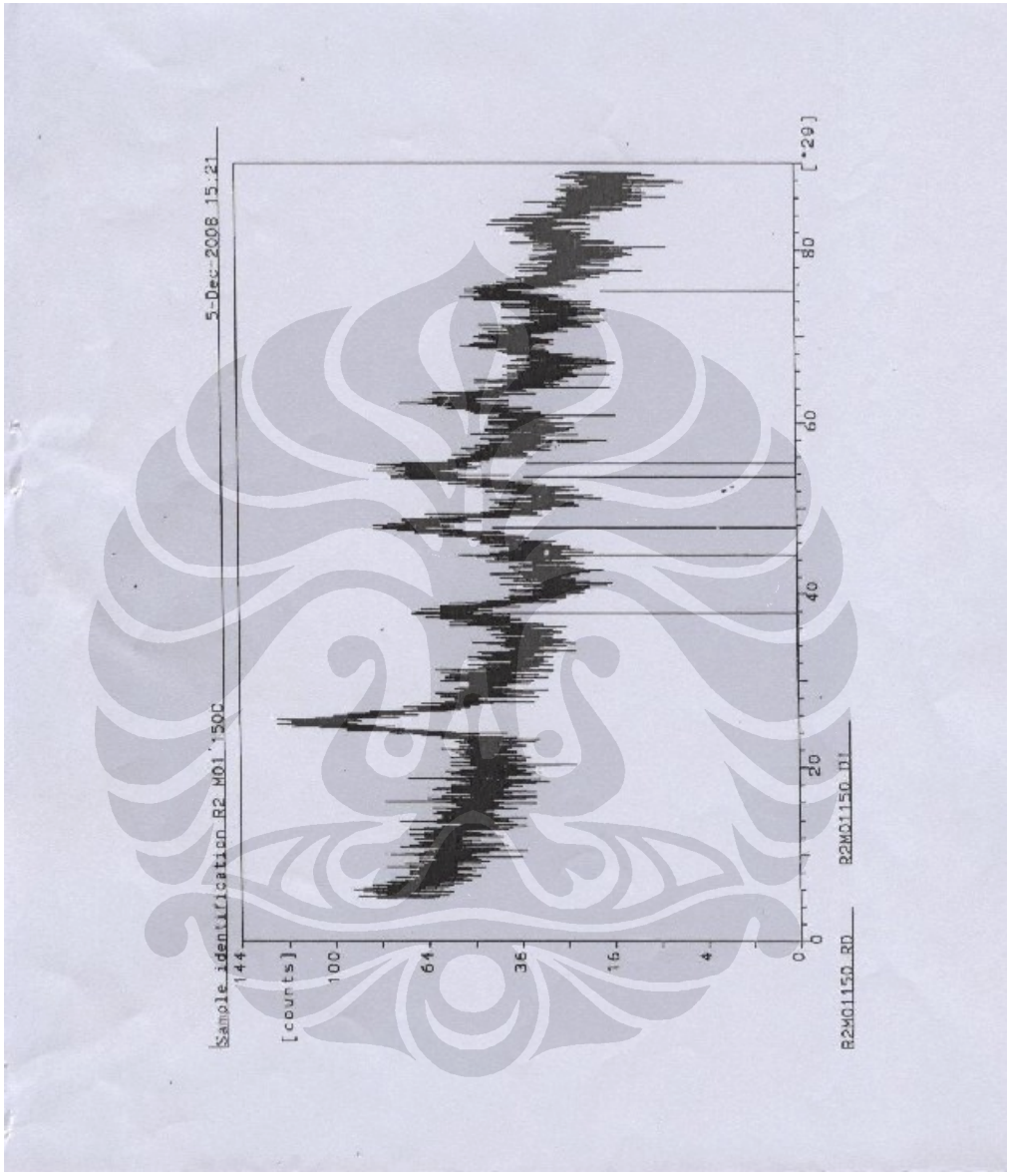
Start angle [°2θ]: 5.000
End angle [°2θ]: 89.000
Step size [°2θ]: 0.020
Maximum intensity: 16.8100
Time per step [s]: 1.000
Type of scan: CONTINUOUS
Intensities converted to: FIXED

Minimum peak tip width: 0.00
Maximum peak tip width: 1.00
Peak base width: 2.00
Minimum significance: 0.75
Number of peaks: 6

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
37.805	2.3777	2.3836	0.640	17	29	100.0	0.95
44.565	2.0315	2.0365	0.120	12	21	72.9	0.81
47.740	1.9035	1.9082	0.640	16	27	95.2	0.92
53.655	1.7068	1.7110	0.640	16	18	95.2	0.87
55.270	1.6607	1.6648	0.640	14	19	85.9	0.81
75.300	1.2610	1.2642	0.480	6	12	34.3	0.76

LAMPIRAN 10

Kurva Hasil Mesin XRD TiO_2 Anil Rw= 2 M= 0,1



LAMPIRAN 11

Data Hasil XRD TiO_2 Anil Rw= 2 M= 0,4

R2M04.DI 3-Dec-2008 12:34

Philips Analytical X-Ray B.V. Department of Metallurgy U

Sample identification: R2 M04
Data measured at: 3-Dec-2008 11:01:00

Diffractometer type: PW1710 BASED
Tube anode: Cu
Generator tension [kV]: 40
Generator current [mA]: 30
Wavelength Alpha1 [Å]: 1.54056
Wavelength Alpha2 [Å]: 1.54439
Intensity ratio (alpha2/alpha1): 0.500
Divergence slit: AUTOMATIC
Irradiated length [mm]: 12
Receiving slit: 0.2
Monochromator used: YES

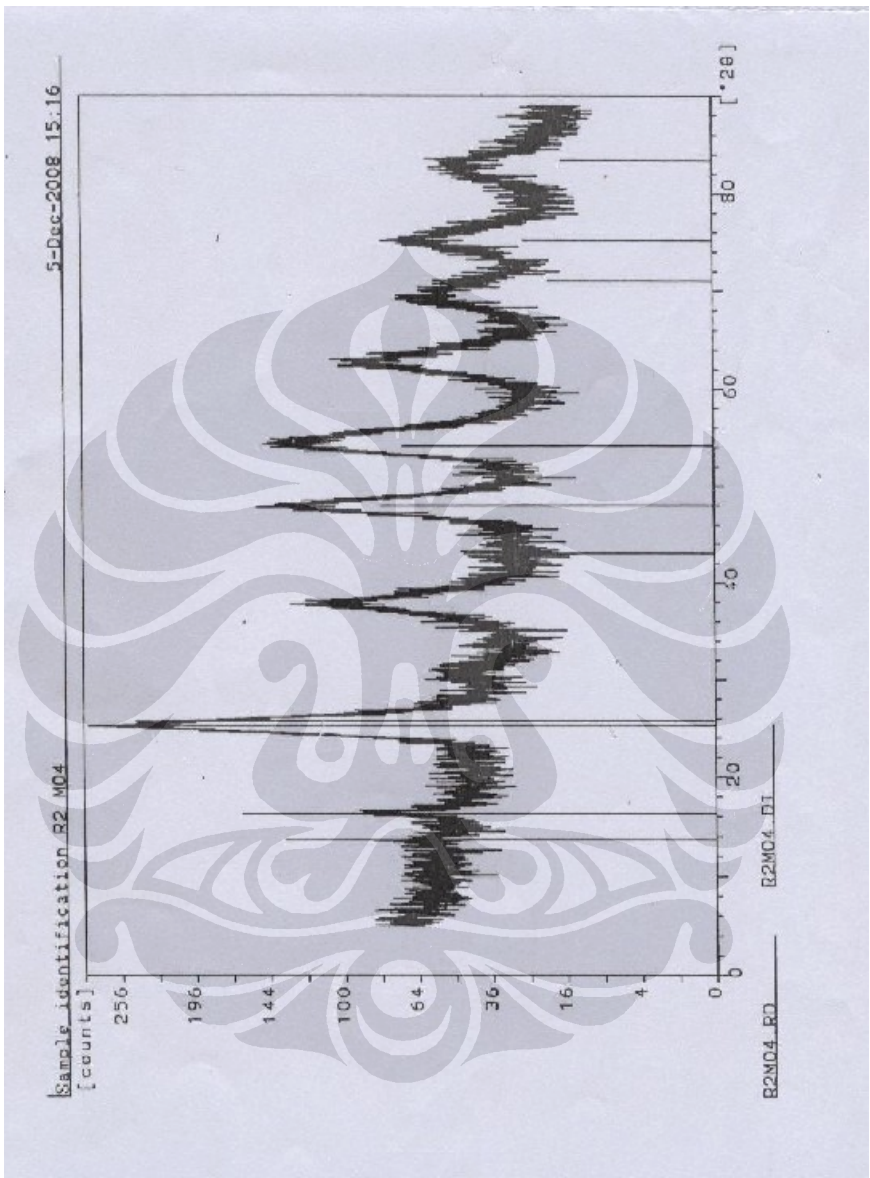
Start angle [°2θ]: 5.000
End angle [°2θ]: 89.000
Step size [°2θ]: 0.020
Maximum intensity: 201.6400
Time per step [s]: 1.000
Type of scan: CONTINUOUS
Intensities converted to: FIXED

Minimum peak tip width: 0.00
Maximum peak tip width: 1.00
Peak base width: 2.00
Minimum significance: 0.75
Number of peaks: 10

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
13.665	6.4747	6.4908	0.960	30	104	15.0	2.0
16.315	5.4285	5.4420	0.480	83	79	41.1	3.2
25.295	3.5180	3.5268	0.640	202	83	100.0	4.5
25.755	3.4562	3.4648	0.240	164	79	81.3	0.7
43.015	2.1010	2.1062	0.060	12	18	6.1	0.9
47.985	1.8944	1.8991	0.560	52	28	25.7	2.4
54.175	1.6916	1.6958	0.960	32	37	16.1	3.7
70.990	1.3266	1.3299	0.480	3	17	1.3	0.8
75.205	1.2624	1.2655	0.960	10	16	4.8	2.8
83.425	1.1576	1.1505	0.800	4	12	2.0	1.3

LAMPIRAN 12

Kurva Hasil Mesin XRD TiO_2 Anil Rw= 2 M= 0,4



LAMPIRAN 13

Data Hasil XRD TiO_2 Anil Rw= 3,5 M= 0,1

: R35M01.DI 3-Dec-2008 17:00

Philips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification: R35 M01
Data measured at: 3-Dec-2008 15:50:00

Diffractometer type: PW1710 BASED
Tube anode: Cu
Generator tension [kV]: 40
Generator current [mA]: 30
Wavelength Alpha1 [Å]: 1.54056
Wavelength Alpha2 [Å]: 1.54439
Intensity ratio (alpha2/alpha1): 0.500
Divergence slit: AUTOMATIC
Irradiated length [mm]: 12
Receiving slit: 0.2
Monochromator used: YES

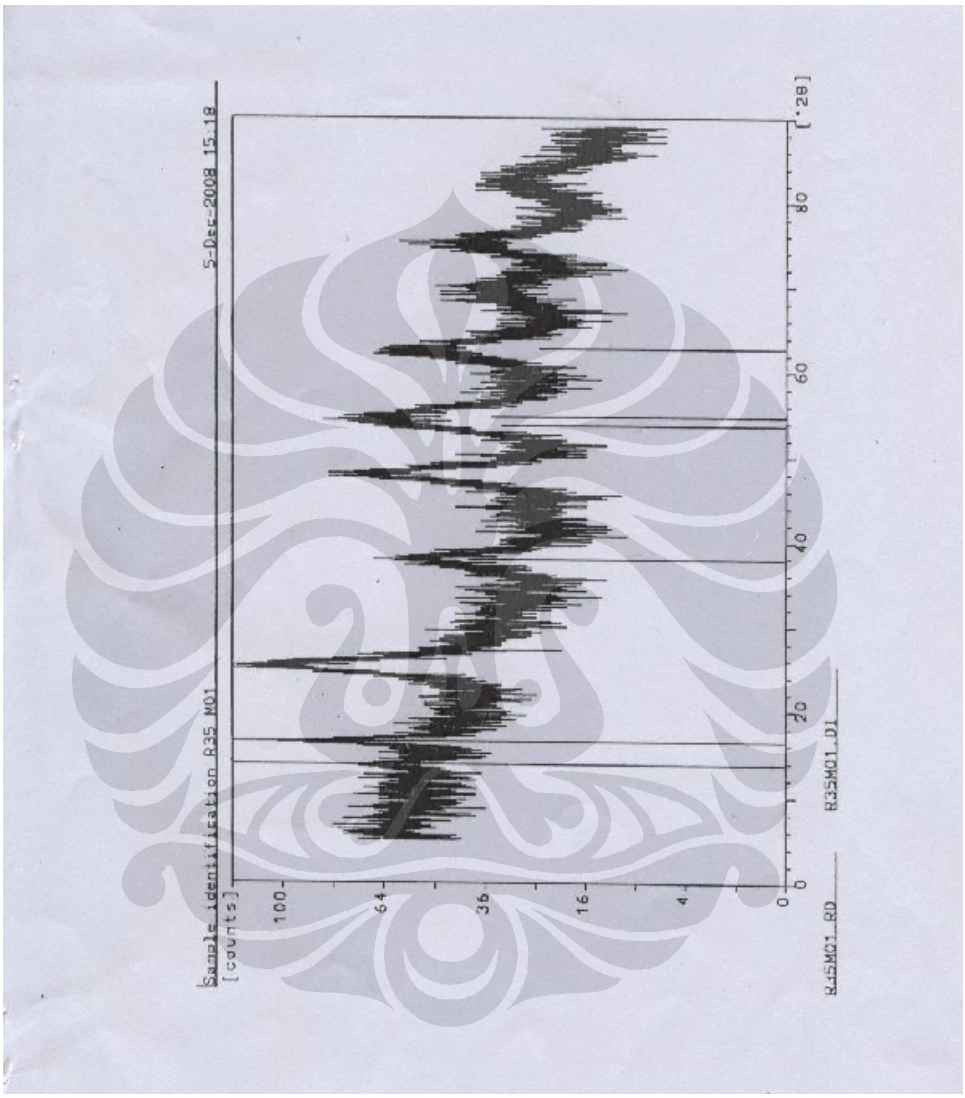
Start angle [°2θ]: 5.000
End angle [°2θ]: 89.000
Step size [°2θ]: 0.020
Maximum intensity: 67.2400
Time per step [s]: 1.000
Type of scan: CONTINUOUS
Intensities converted to: FIXED

Minimum peak tip width: 0.00
Maximum peak tip width: 1.00
Peak base width: 2.00
Minimum significance: 0.75
Number of peaks: 6

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
13.770	6.4256	6.4416	0.640	26	106	38.7	1.11
16.430	5.3908	5.4042	0.640	67	81	100.0	4.15
37.900	2.3720	2.3779	0.480	16	24	23.8	0.84
53.750	1.7040	1.7082	0.800	14	18	20.4	0.87
54.755	1.6751	1.6792	0.800	14	20	21.5	1.02
62.790	1.4787	1.4823	0.640	8	16	12.5	1.22

LAMPIRAN 14

Kurva Hasil Mesin XRD TiO_2 Anil Rw= 3,5 M= 0,1



LAMPIRAN 15

Data Hasil XRD TiO_2 Pengeringan Rw= 3,5 M= 0,4

R35M04.DI 3-Dec-2008 14:02

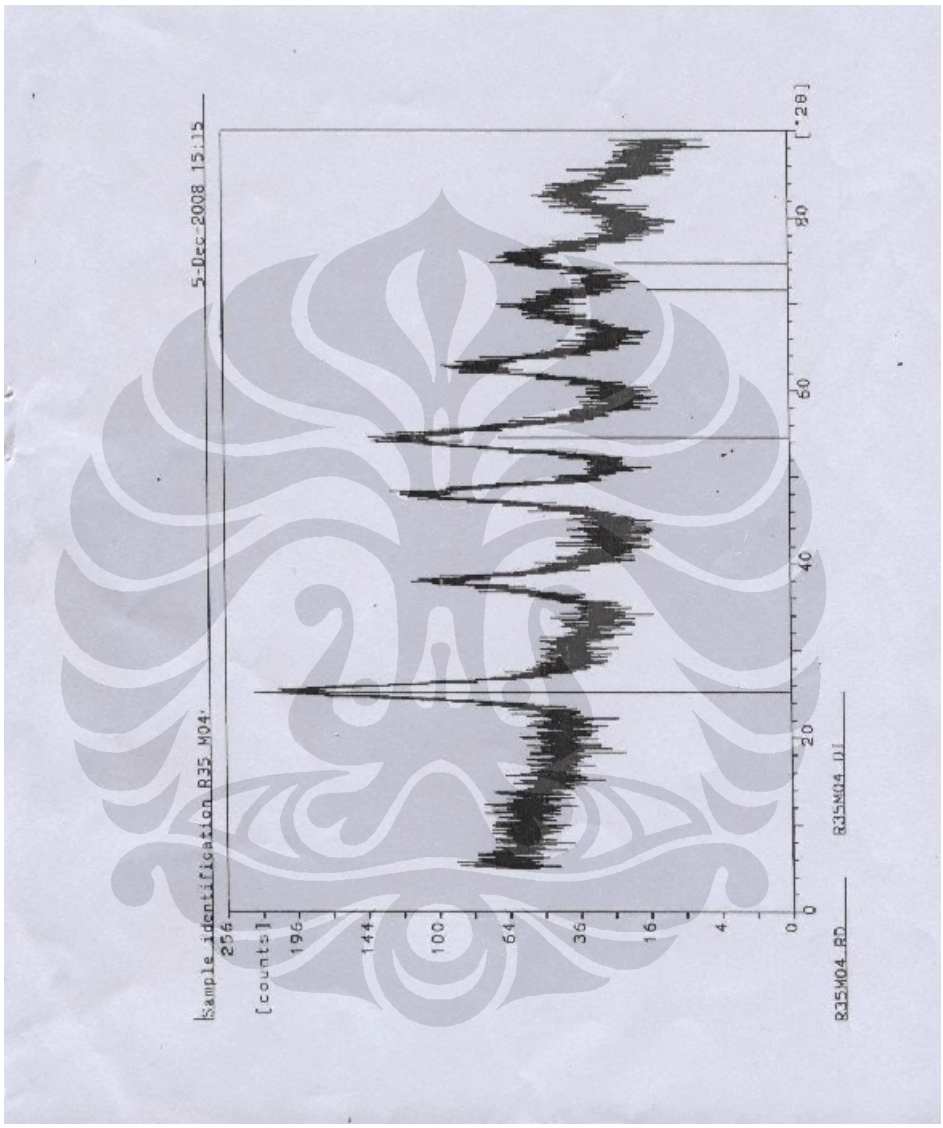
hilips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification:	R35 M04
Data measured at:	3-Dec-2008 12:52:00
Diffractometer type:	PW1710 BASED
Tube anode:	Cu
Generator tension [kV]:	40
Generator current [mA]:	30
Wavelength Alpha1 [Å]:	1.54056
Wavelength Alpha2 [Å]:	1.54439
Intensity ratio (alpha2/alpha1):	0.500
Divergence slit:	AUTOMATIC
Irradiated length [mm]:	12
Receiving slit:	0.2
Monochromator used:	YES
Start angle [°2θ]:	5.000
End angle [°2θ]:	89.000
Step size [°2θ]:	0.020
Maximum intensity:	139.2400
Time per step [s]:	1.000
Type of scan:	CONTINUOUS
Intensities converted to:	FIXED
Minimum peak tip width:	0.00
Maximum peak tip width:	1.00
Peak base width:	2.00
Minimum significance:	0.75
Number of peaks:	4

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
25.250	3.5242	3.5330	0.320	139	86	100.0	0.85
54.595	1.6796	1.6838	0.400	36	31	25.9	0.89
71.605	1.3167	1.3200	0.200	2	14	1.4	0.77
74.710	1.2695	1.2727	0.800	7	17	4.9	1.31

LAMPIRAN 16

Kurva Hasil Mesin XRD TiO_2 Pengeringan Rw= 3,5 M= 0,4



LAMPIRAN 17

Data Hasil XRD TiO_2 Hidrotermal Rw= 2 M= 0,1

LAMPIRAN 18

Kurva Hasil Mesin XRD TiO_2 Hidrotermal Rw= 2 M= 0,1

LAMPIRAN 19

Data Hasil XRD TiO_2 Hidrotermal Rw= 2 M= 0,4

: HR2M04.DI 11-Dec-2008 10:45

Philips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification: Hidrotermal R2M04
Data measured at: 11-Dec-2008 9:35:00

Diffractometer type: PW1710 BASED
Tube anode: Cu
Generator tension [kV]: 40
Generator current [mA]: 30
Wavelength Alpha1 [Å]: 1.54056
Wavelength Alpha2 [Å]: 1.54439
Intensity ratio (alpha2/alpha1): 0.500
Divergence slit: AUTOMATIC
Irradiated length [mm]: 12
Receiving slit: 0.2
Monochromator used: YES

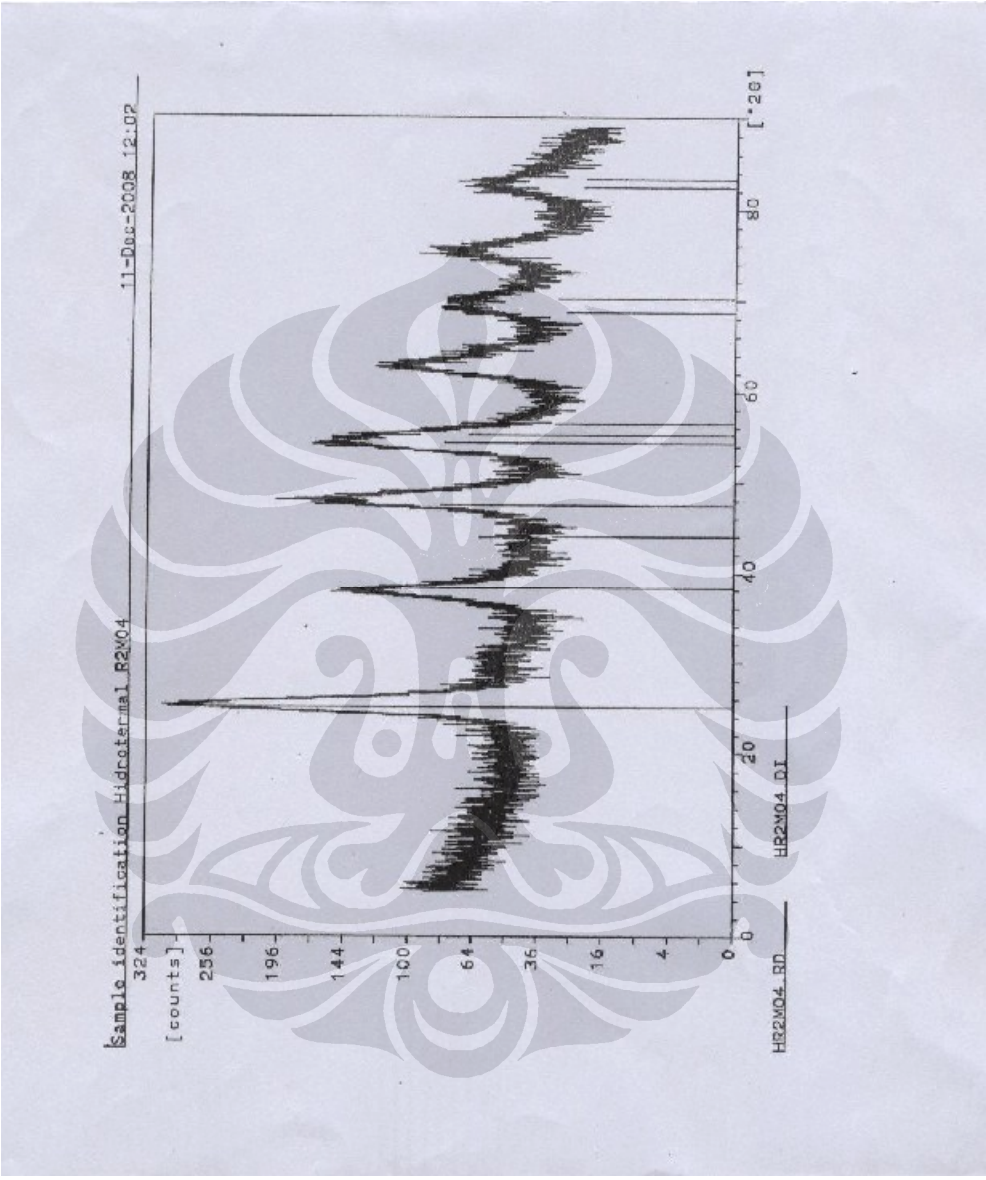
Start angle [°2θ]: 5.000
End angle [°2θ]: 89.000
Step size [°2θ]: 0.020
Maximum intensity: 204.4900
Time per step [s]: 1.000
Type of scan: CONTINUOUS
Intensities converted to: FIXED

Minimum peak tip width: 0.00
Maximum peak tip width: 1.00
Peak base width: 2.00
Minimum significance: 0.75
Number of peaks: 11

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
25.080	3.5477	3.5565	0.480	204	96	100.0	2.07
38.285	2.3490	2.3548	0.400	52	50	25.4	1.01
44.005	2.0560	2.0611	0.240	6	24	3.1	0.84
47.505	1.9124	1.9171	0.320	38	44	18.8	1.17
54.375	1.6859	1.6901	0.400	53	27	26.1	0.80
55.235	1.6616	1.6658	0.320	42	24	20.7	1.22
56.525	1.6267	1.6308	0.120	9	21	4.4	1.01
68.690	1.3653	1.3687	0.960	10	17	4.7	1.76
70.205	1.3395	1.3429	0.800	12	18	5.7	1.12
82.435	1.1690	1.1719	0.800	10	12	5.0	1.52
83.350	1.1585	1.1614	0.400	10	12	4.7	1.09

LAMPIRAN 20

Kurva Hasil Mesin XRD TiO_2 Pengeringan Rw= 2 M= 0,4



LAMPIRAN 21

Data Hasil XRD TiO_2 Hidrotermal Rw= 3,5 M= 0,1

: HR35M01.DI 10-Dec-2008 14:54

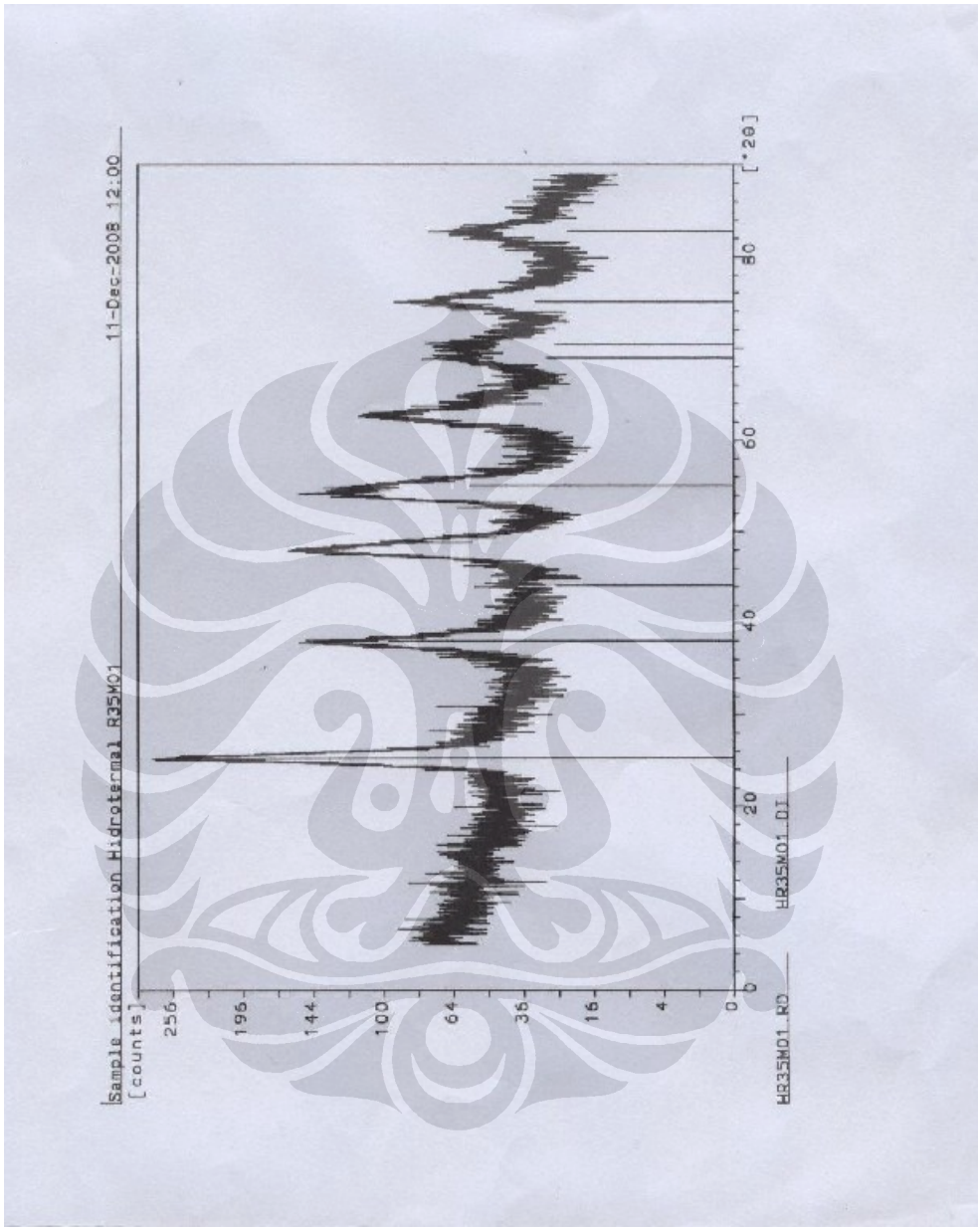
Philips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification:	Hidrotermal R35M01
Data measured at:	10-Dec-2008 13:44:00
Diffractometer type:	PW1710 BASED
Tube anode:	Cu
Generator tension [kV]:	40
Generator current [mA]:	30
Wavelength Alpha1 [Å]:	1.54056
Wavelength Alpha2 [Å]:	1.54439
Intensity ratio (alpha2/alpha1):	0.500
Divergence slit:	AUTOMATIC
Irradiated length [mm]:	12
Receiving slit:	0.2
Monochromator used:	YES
Start angle [°2θ]:	5.000
End angle [°2θ]:	89.000
Step size [°2θ]:	0.020
Maximum intensity:	204.4900
Time per step [s]:	1.000
Type of scan:	CONTINUOUS
Intensities converted to:	FIXED
Minimum peak tip width:	0.00
Maximum peak tip width:	1.00
Peak base width:	2.00
Minimum significance:	0.75
Number of peaks:	8

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
25.250	3.5242	3.5330	0.800	204	71	100.0	13.36
38.050	2.3630	2.3688	0.480	59	38	29.0	2.46
44.195	2.0476	2.0527	0.640	4	22	1.8	0.77
55.070	1.6662	1.6704	0.640	23	34	11.3	0.97
68.935	1.3611	1.3644	0.640	12	17	5.7	1.17
70.410	1.3361	1.3394	0.960	9	17	4.4	0.94
75.085	1.2641	1.2672	0.400	17	15	8.2	1.13
82.765	1.1652	1.1681	0.800	10	13	4.7	1.78

LAMPIRAN 22

Kurva Hasil Mesin XRD TiO_2 Pengeringan Rw= 3,5 M= 0,1



LAMPIRAN 23

Data Hasil XRD TiO_2 Hidrotermal Rw= 3,5 M= 0,4

: HR35M04.DI 11-Dec-2008 11:58

Philips Analytical X-Ray B.V. Department of Metallurgy UI

Sample identification: Hidrotermal R35M04
Data measured at: 11-Dec-2008 10:48:00

Diffractometer type: PW1710 BASED
Tube anode: Cu
Generator tension [kV]: 40
Generator current [mA]: 30
Wavelength Alpha1 [Å]: 1.54056
Wavelength Alpha2 [Å]: 1.54439
Intensity ratio (alpha2/alpha1): 0.500
Divergence slit: AUTOMATIC
Irradiated length [mm]: 12
Receiving slit: 0.2
Monochromator used: YES

Start angle [°2θ]: 5.000
End angle [°2θ]: 89.000
Step size [°2θ]: 0.020
Maximum intensity: 163.8400
Time per step [s]: 1.000
Type of scan: CONTINUOUS
Intensities converted to: FIXED

Minimum peak tip width: 0.00
Maximum peak tip width: 1.00
Peak base width: 2.00
Minimum significance: 0.75
Number of peaks: 10

Angle [°2θ]	d-value α1 [Å]	d-value α2 [Å]	Peak width [°2θ]	Peak int [counts]	Back. int [counts]	Rel. int [%]	Signif.
25.310	3.5160	3.5247	0.880	164	83	100.0	10.53
37.790	2.3786	2.3845	0.480	50	48	30.8	1.55
53.980	1.6973	1.7015	0.640	25	36	15.3	1.15
62.555	1.4836	1.4873	0.960	24	22	14.7	2.71
64.990	1.4338	1.4374	0.480	12	20	7.1	0.88
69.315	1.3545	1.3579	0.800	8	22	5.1	0.81
70.300	1.3379	1.3413	0.800	8	21	4.8	0.91
75.210	1.2623	1.2654	0.800	14	18	8.8	2.67
82.150	1.1723	1.1753	0.800	5	15	3.0	0.84
85.675	1.1329	1.1357	0.800	1	12	0.7	0.76

LAMPIRAN 24

Kurva Hasil Mesin XRD TiO_2 Pengeringan Rw= 3,5 M= 0,4