LAMPIRAN 1

HASIL PENGUJIAN KOMPOSISI KIMIA

Unsur paduan	Komposisi AC4B tanpa penambahan Ti	Komposisi AC4B penambahan 0.036*wt.* % Ti	Komposisi AC4B penambahan 0.045 *wt.* % Ti	Komposisi AC4B berdasarkan standar PT. X
Si	9.412	9.40	9.38	7 – 10
Cu	2.837	2.80	2.88	2 – 4
Mg	0.222	0.172	0.181	0.5 maks
Zn	0.712	0.319	0.261	1 maks
Fe	0.658	0.786	0.762	1 maks
Mn	0.242	0.308	0.310	0.5 maks
Ni	0.049	0.0547	0.05058	0.35 maks
Ti	**0.029**	**0.0795**	**0.101**	**0.2 maks**
Pb	0.124	0.0834	0.0787	0.2 maks
Sn	0.043	0.028	0.031	0.1 maks
Cr	0.021	0.027	0.02	0.1 maks
Al	*Remains*	*Remains*	*Remains*	*Remains*

LAMPIRAN 2

HASIL PENGUJIAN KEKERASAN MAKRO AC4B

	0 wt. % Ti (BHN)	
	Tebal	Tipis
	84.19	83.45
	78.85	85.45
	82.59	85.71
	88.06	87.13
	83.45	-
Average	83.43	87.48
error	0.03	0.01

	0.0505 wt. % Ti (BHN)	
	Tebal	Tipis
	89.96	85.84
	85.71	93.2
	82.72	94.97
	87.53	92.34
	82.9	90.65
Average	85.77	91.4
error	0.03	0.03

	0.072 wt. % Ti (BHN)	
	Tebal	Tipis
	86.61	90.09
	91.77	93.93
	87.79	87.40
	95.72	92.20
	85.20	96.32
Average	89.42	91.99
error	0.04	0.03

Konversi nilai kekerasan dari BHN ke HRB[26]

BHN 500 kg	HRB
80	47
81	48
82	49
83	50
84	51
85	52
86	53
87	54
89	55
90	56
91	57
92	58

LAMPIRAN 3

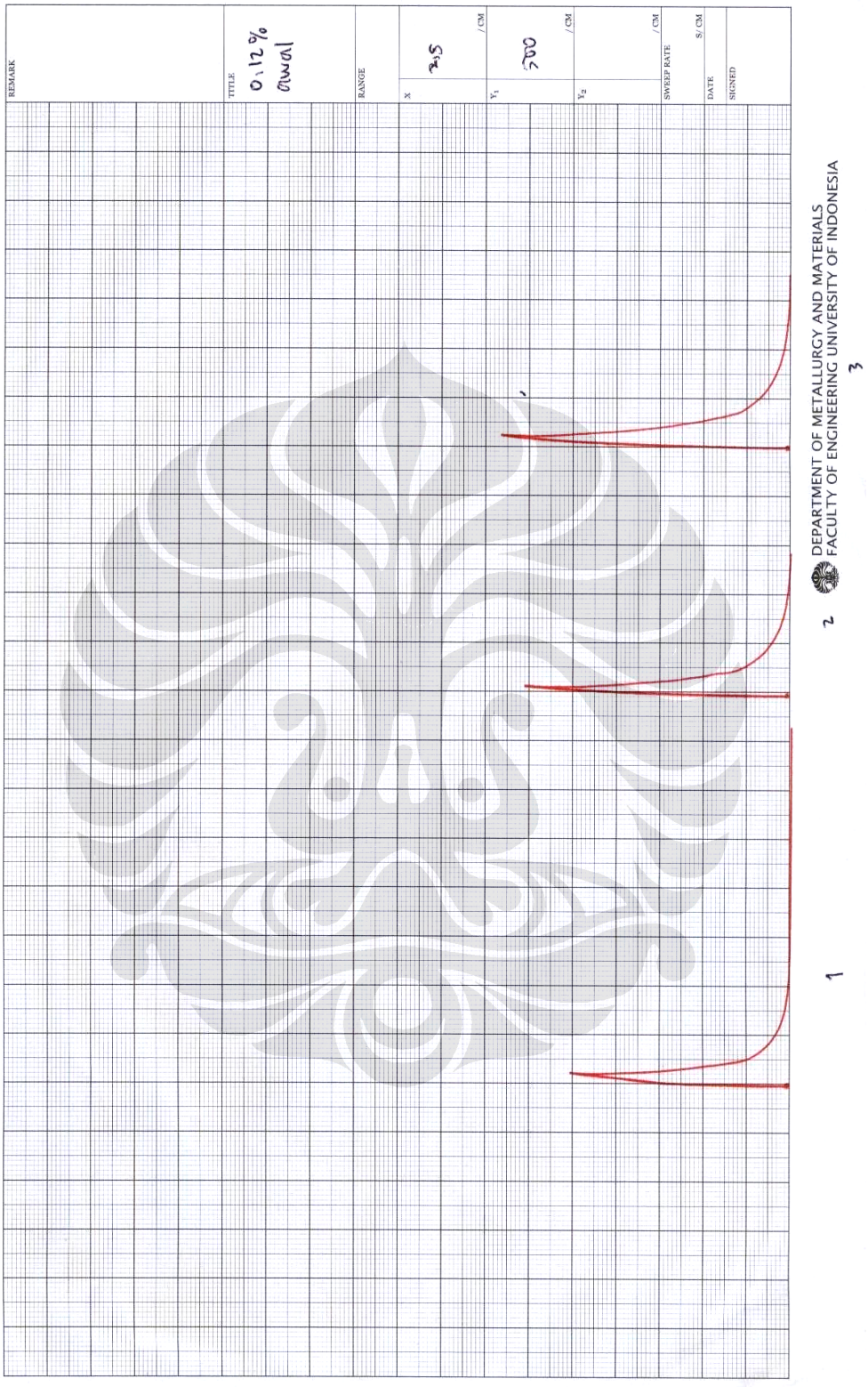
HASIL PENGUJIAN KEKUATAN TARIK AC4B

Penambahan Ti	No	Do (mm)	A0 (mm2)	Gauge length	Pmaks (kg/mm2)	ΔL	UTS (MPa)	elongasi (%)
0 %	1	15.1	178.99	50	1300	0.25	72.6	0.5
	2	15.1	178.99	50	2350	0.5	131.3	1
	3	14.7	169.63	50	3100	0.5	182.7	1
Rata-rata					2250		**128.89**	**0.83**
STDEV					738.24		58.18	0.24
Penyimpangan					0.33		0.45	0.28

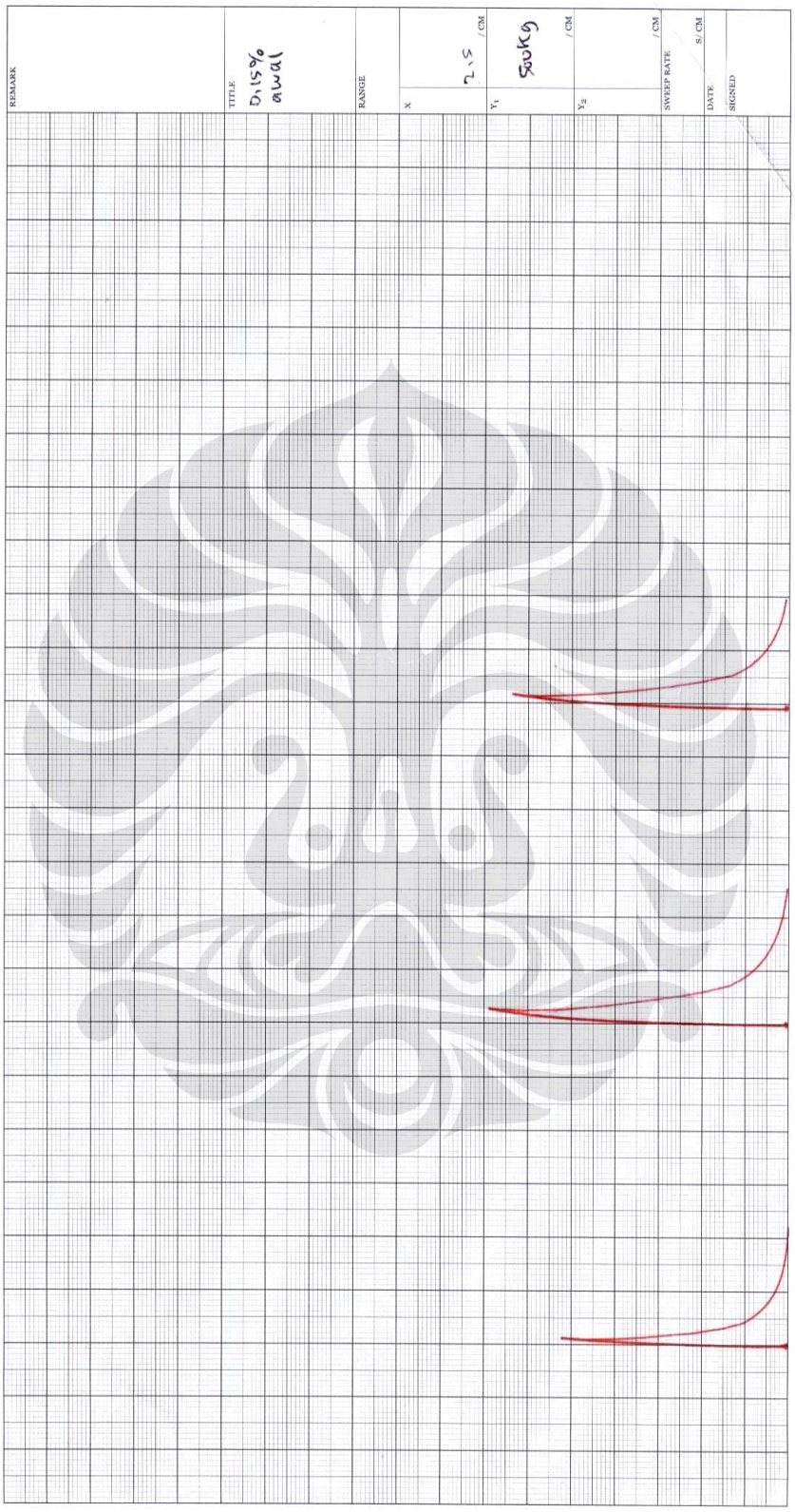
Penambahan Ti	No	Do (mm)	A0 (mm2)	Gauge length	Pmaks (kg/mm2)	ΔL	UTS (MPa)	elongasi (%)
0.0505 wt. %	1	15.1	174.2779	50	2500	0.7	143.4	1.4
	2	15.1	176.625	50	3000	0.5	169.9	1
	3	14.7	178.9879	50	3300	0.6	184.4	1.2
Rata-rata					2933.33		**165.89**	**1.2**
STDEV					329.98		74.67	0.16
Penyimpangan					0.11		0.45	0.14

Penambahan Ti	No	Do (mm)	A0 (mm2)	Gauge length	Pmaks (kg/mm2)	ΔL	UTS (MPa)	elongasi (%)
0.072 wt. %	1	15.1	186.1706	50	2600	0.25	139.7	0.5
	2	15.1	186.1706	50	3450	0.75	185.3	1.5
	3	14.7	167.3306	50	3200	0.5	191.2	1
Rata-rata					3083.33		**172.07**	**1**
STDEV					356.68		77.47	0.41
Penyimpangan					0.12		0.45	0.41

Grafik pengujian tarik 0.0505 wt % Ti



Grafik pengujian tarik 0.072 wt. % Ti



LAMPIRAN 4

HASIL PENGUKURAN NILAI DAS

0 wt. % Ti	Tebal	tipis
titik	mikron	mikron
1	20.27	37.5
2	20.88	30.27
3	24.38	29.94
4	26.22	31.22
5	28	28.55
6	24.72	28.27
7	24.11	31.44
8	22.66	28.88
9	23.5	28
10	22.33	30.27
rata rata	**23.51**	**29.97**
stdev	**2.17**	**2.72**
error	**0.092**	**0.09**

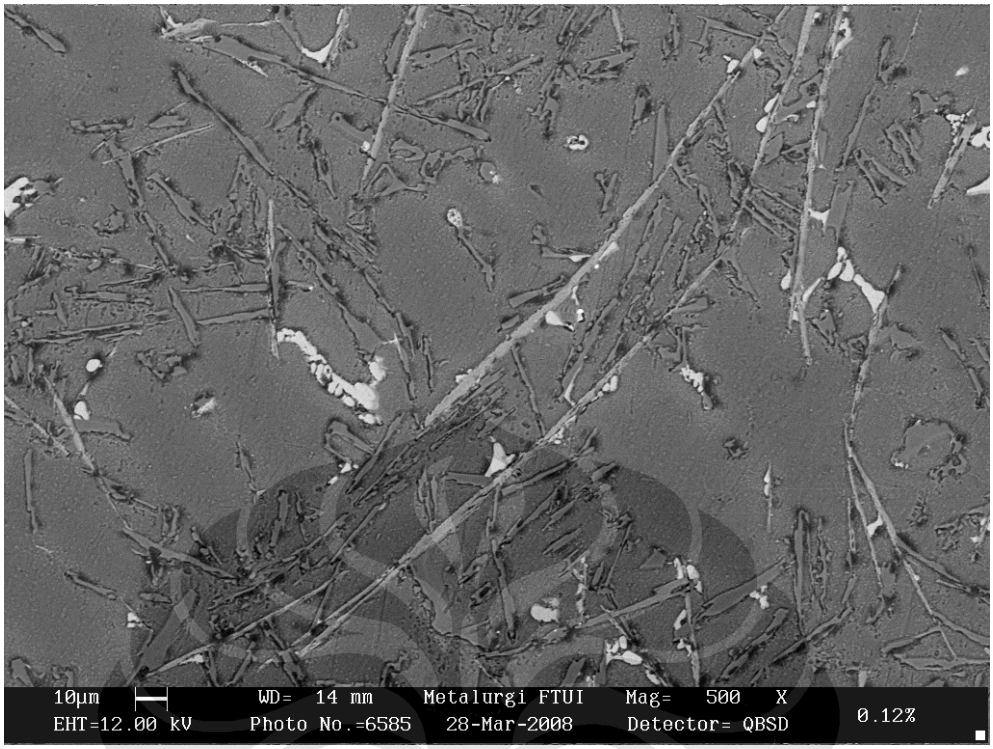
	Tebal			
titik	EF (0.0505 wt.% Ti)mm	mikron	FB (0.072 wt.% Ti) mm	mikron
1	5.20	28.89	4.20	23.33
2	3.60	20.00	3.00	16.67
3	3.70	20.56	4.10	22.78
4	5.40	30.00	4.20	23.33
5	3.70	20.56	3.60	20.00
6	4.20	23.33	3.20	17.78
7	4.40	24.44	3.70	20.56
8	4.60	25.56	4.10	22.78
9	4.00	22.22	4.90	27.22
10	4.20	23.33	4.60	25.56
	rata rata	**23.89**		**22.00**
	stdev	**3.43**		**3.28**
	error	**0.14**		**0.15**

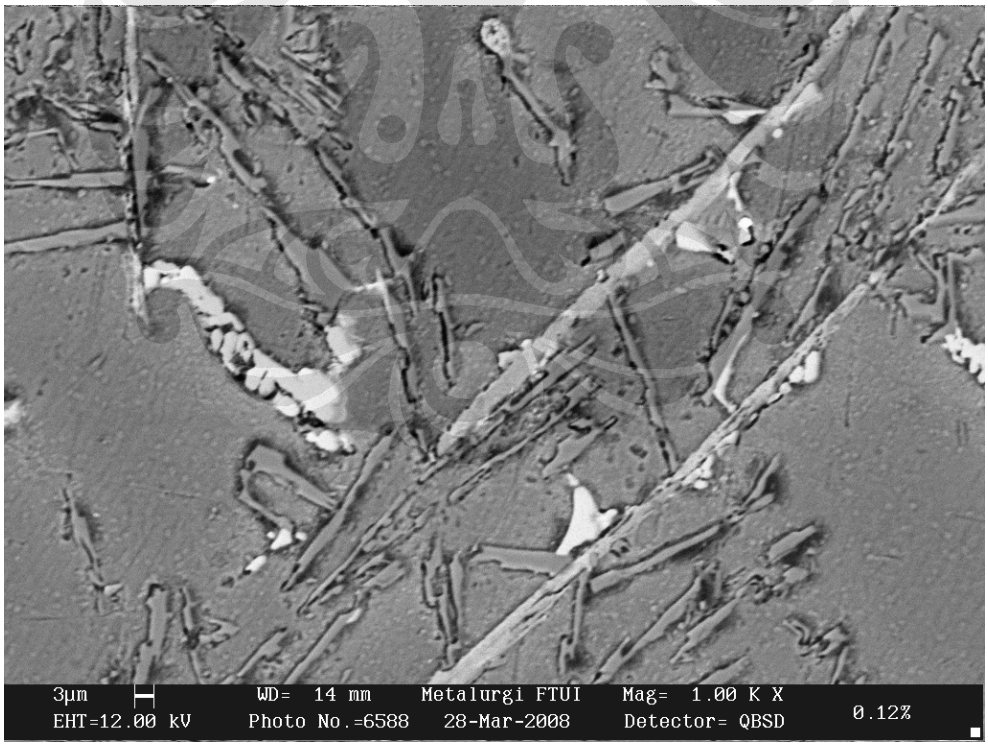
	tipis			
titik	EF (0.0505 wt.% Ti) mm	mikron	FB (0.072 wt.% Ti) mm	mikron
1	2.00	11.11	2.00	11.11
2	2.20	12.22	2.00	11.11
3	2.20	12.22	2.10	11.67
4	2.40	13.33	2.30	12.78
5	2.90	16.11	2.00	11.11
6	2.50	13.89	2.30	12.78
7	2.00	11.11	2.10	11.67
8	1.90	10.56	2.00	11.11
9	2.50	13.89	2.00	11.11
10	2.10	11.67	2.20	12.22
	rata rata	**12.61**		**11.67**
	stdev	**1.70**		**0.69**
	error	**0.13**		**0.06**

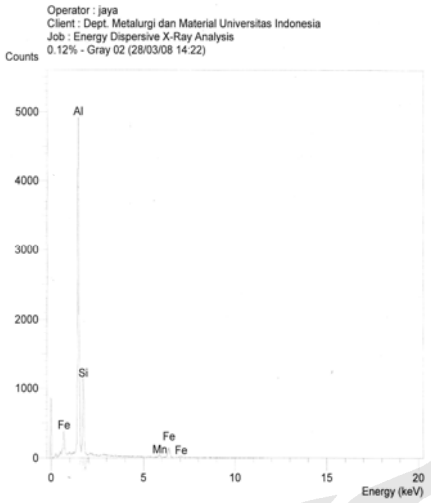
LAMPIRAN 5

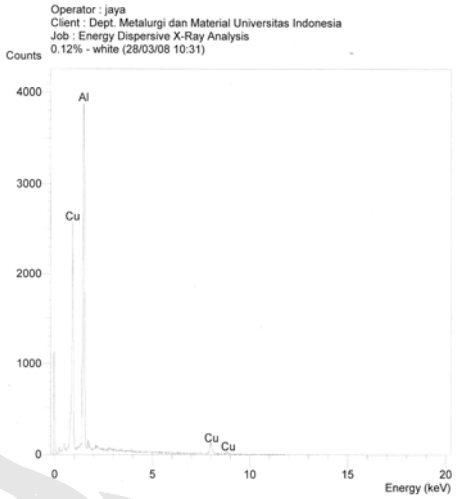
HASIL PENGAMATAN SEM DAN EDAX

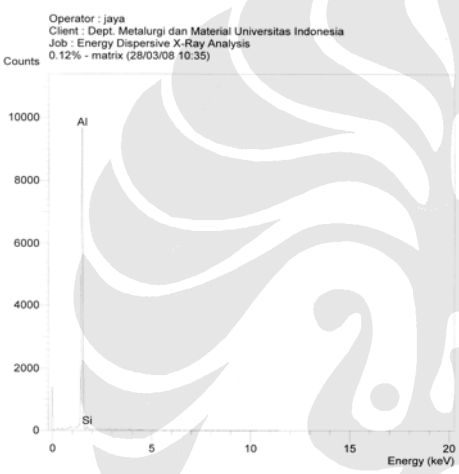
Hasil pengamatan SEM 0.0505 wt. % Ti

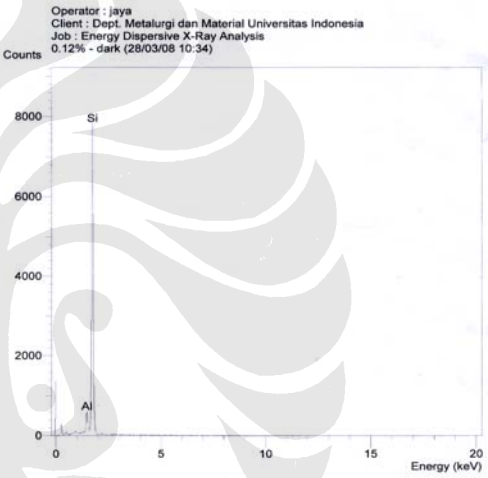













```
SEMQuant results. Listed at 14:23:32 on 28/03/08
Operator: jaya
Client: Dept. Metalurgi dan Material Universitas Indonesia
Job: Energy Dispersive X-Ray Analysis
Spectrum label: 0.12% - Gray 02

System resolution =  62 eV

Quantitative method: ZAF ( 3 iterations).
 Analysed all elements and normalised results.

 3 peaks possibly omitted: -0.02, 0.24, 2.14 keV

Standards :
 Al K       CeAl2 03/03/07
 Si K       Low Carbon Steel 13/09/06
 Mn K       Mangan 02 13/09/06
 Fe K       FeS2 22/03/06


Elmt    Spect.  Element  Atomic
         Type      %        %
Al K      ED     58.50    68.83
Si K      ED     13.41    15.15
Mn K      ED      4.45     2.57
Fe K      ED     23.64    13.44
Total           100.00   100.00

* = <2 Sigma
```

SEMQuant results. Listed at 10:32:14 on 28/03/08
Operator: jaya
Client: Dept. Metalurgi dan Material Universitas Indonesia
Job: Energy Dispersive X-Ray Analysis
Spectrum label: 0.12% - white

System resolution = 60 eV

Quantitative method: ZAF (3 iterations).
Analysed all elements and normalised results.

4 peaks possibly omitted: -0.02, 0.24, 0.48, 2.82 keV

Standards :
Al K CeAl2 03/03/07
Cu K Copper 22/03/06

Elmt	Spect. Type	Element %	Atomic %
Al K	ED	33.13	53.85
Cu K	ED	66.87	46.15
Total		100.00	100.00

* = <2 Sigma

SEMQuant results. Listed at 10:36:12 on 28/03/08
Operator: jaya
Client: Dept. Metalurgi dan Material Universitas Indonesia
Job: Energy Dispersive X-Ray Analysis
Spectrum label: 0.12% - matrix

System resolution = 59 eV

Quantitative method: ZAF (2 iterations).
Analysed all elements and normalised results.

5 peaks possibly omitted: -0.02, 0.24, 0.48, 0.94, 2.16 keV

Standards :
Al K CeAl2 03/03/07
Si K Low Carbon Steel 13/09/06

Elmt	Spect. Type	Element %	Atomic %
Al K	ED	98.48	98.54
Si K	ED	1.52	1.46
Total		100.00	100.00

* = <2 Sigma

SEMQuant results. Listed at 10:35:15 on 28/03/08
Operator: jaya
Client: Dept. Metalurgi dan Material Universitas Indonesia
Job: Energy Dispersive X-Ray Analysis
Spectrum label: 0.12% - dark

System resolution = 59 eV

Quantitative method: ZAF (2 iterations).
Analysed all elements and normalised results.

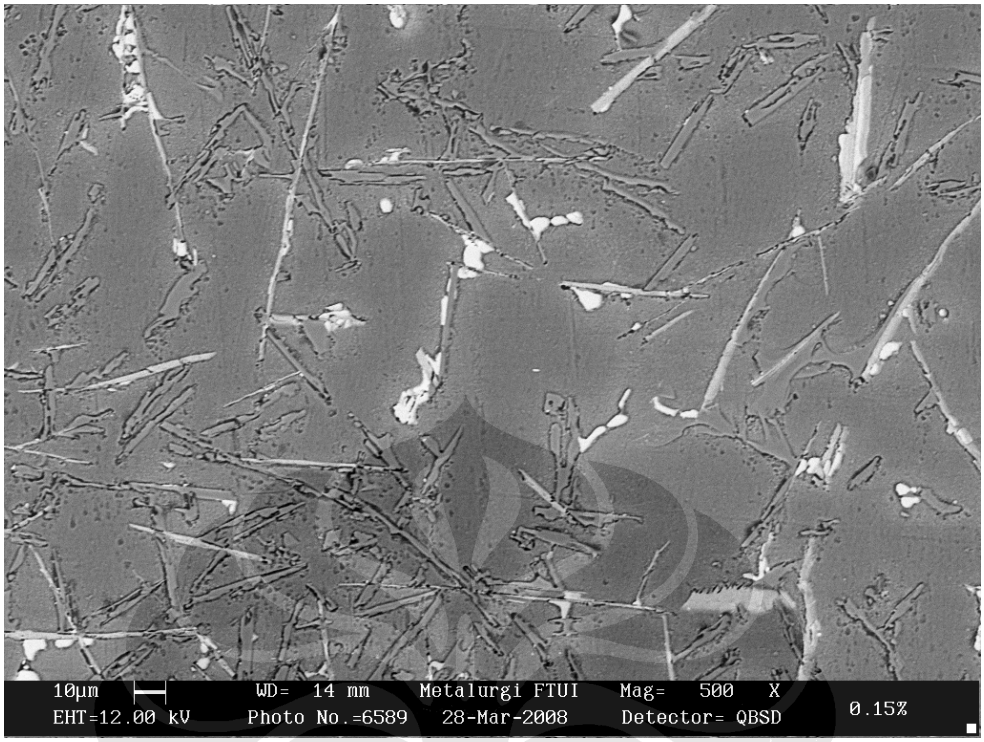
4 peaks possibly omitted: -0.02, 0.26, 0.50, 0.92 keV

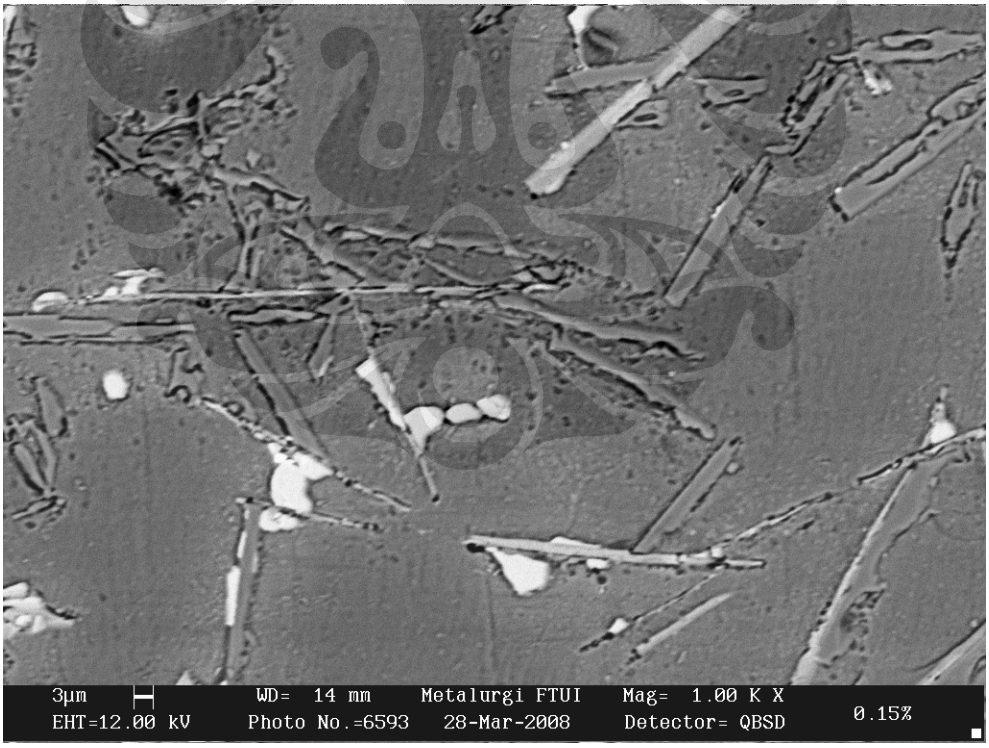
Standards :
Al K CeAl2 03/03/07
Si K Low Carbon Steel 13/09/06

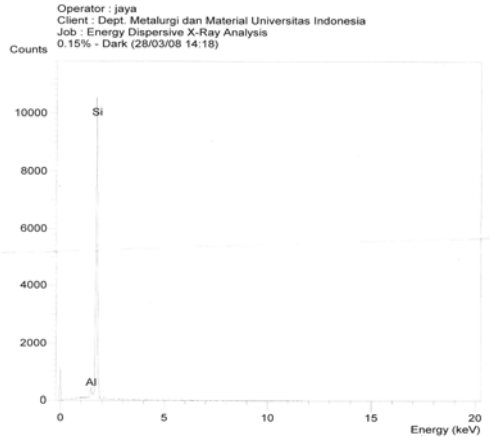
Elmt	Spect. Type	Element %	Atomic %
Al K	ED	7.77	8.06
Si K	ED	92.23	91.94
Total		100.00	100.00

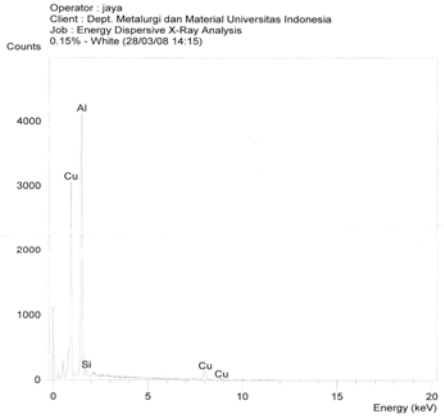
* = <2 Sigma

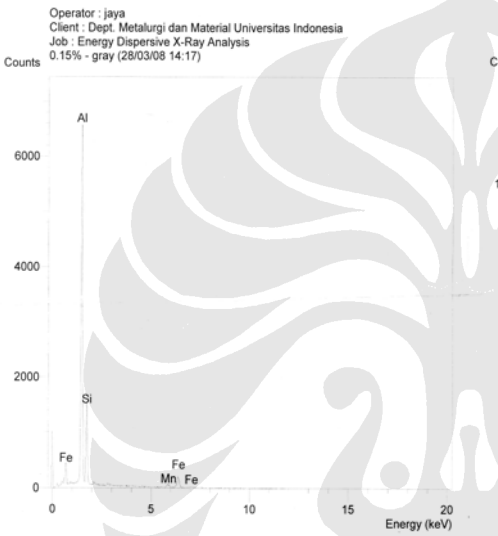
Hasil pengamatan SEM 0.072 wt. % Ti

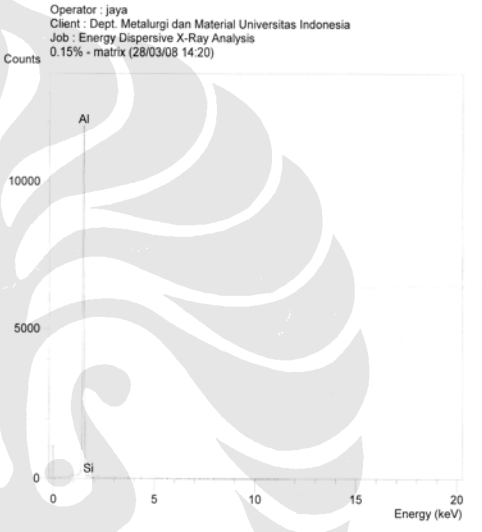













```
SEMQuant results. Listed at 14:19:51 on 28/03/08
Operator: jaya
Client: Dept. Metalurgi dan Material Universitas Indonesia
Job: Energy Dispersive X-Ray Analysis
Spectrum label: 0.15% - Dark

System resolution =  59 eV

Quantitative method: ZAF ( 2 iterations).
 Analysed all elements and normalised results.

 5 peaks possibly omitted: -0.02, 0.24, 0.50,
 2.82, 8.00 keV

Standards :
 Al K       CeAl2 03/03/07
 Si K       Low Carbon Steel 13/09/06


Elmt    Spect.  Element   Atomic
        Type      %         %
Al K     ED       3.57      3.71
Si K     ED      96.43     96.29
Total           100.00    100.00

* = <2 Sigma
```

SEMQuant results. Listed at 14:17:19 on 28/03/08
Operator: jaya
Client: Dept. Metalurgi dan Material Universitas Indonesia
Job: Energy Dispersive X-Ray Analysis
Spectrum label: 0.15% - White

System resolution = 60 eV

Quantitative method: ZAF (3 iterations).
Analysed all elements and normalised results.

3 peaks possibly omitted: -0.02, 0.24, 2.14 keV

Standards :
Al K CeAl2 03/03/07
Si K Low Carbon Steel 13/09/06
Cu K Copper 22/03/06

Elmt	Spect. Type	Element %	Atomic %
Al K	ED	32.98	53.44
Si K	ED	0.51	0.79
Cu K	ED	66.51	45.77
Total		100.00	100.00

* = <2 Sigma

SEMQuant results. Listed at 14:18:49 on 28/03/08
Operator: jaya
Client: Dept. Metalurgi dan Material Universitas Indonesia
Job: Energy Dispersive X-Ray Analysis
Spectrum label: 0.15% - gray

System resolution = 62 eV

Quantitative method: ZAF (3 iterations).
Analysed all elements and normalised results.

4 peaks possibly omitted: -0.02, 0.24, 2.14, 2.82 keV

Standards :
Al K CeAl2 03/03/07
Si K Low Carbon Steel 13/09/06
Mn K Mangan 02 13/09/06
Fe K FeS2 22/03/06

Elmt	Spect. Type	Element %	Atomic %
Al K	ED	57.84	68.88
Si K	ED	11.96	13.69
Mn K	ED	5.46	3.20
Fe K	ED	24.73	14.23
Total		100.00	100.00

* = <2 Sigma

SEMQuant results. Listed at 14:20:56 on 28/03/08
Operator: jaya
Client: Dept. Metalurgi dan Material Universitas Indonesia
Job: Energy Dispersive X-Ray Analysis
Spectrum label: 0.15% - matrix

System resolution = 59 eV

Quantitative method: ZAF (2 iterations).
Analysed all elements and normalised results.

5 peaks possibly omitted: -0.02, 0.24, 0.46, 0.92, 2.14 keV

Standards :
Al K CeAl2 03/03/07
Si K Low Carbon Steel 13/09/06

Elmt	Spect. Type	Element %	Atomic %
Al K	ED	98.67	98.72
Si K	ED	1.33	1.28
Total		100.00	100.00

* = <2 Sigma

LAMPIRAN 6

HASIL PENGUJIAN KEBOCORAN

CHECK SHEET (19 september 2007)

Temp melting : 810 ^{0}C
Komposisi Grain refiner : 0,0505 wt. % Ti
Temp. penambahan grain refiner : 760 ^{0}C
Jenis Grain Refiner : Flux Coveral 2815
Waktu GBF : 8 menit

No Part	
1	Kiri
2	Kanan

No shot	No Part	Temp Dies (^{0}C)		Temp molten (^{0}C)	Tekanan mesin (kg/cm^{2})	Jam ke	Jenis cacat	Marking	Uji Bocor
1	1	214	184	704					
	2	315	376	704					
2	3	TRIAL							
	4								
3	5	270,5	207,8	704	250	0	cacat kotor	EA	
	6	354,4	375,6				ok!	EB	
4	7	264,7	211,9	704	250	1	ok!	EE	
	8	343,9	368,5				ok!	EF	
5	9	265,2	218,7	705	250	1	ok!	E1A	
	10	348,4	363,2				ok!	E1B	
6	11	263,1	223,3	706	250	1	ok!	E1E	
	12	349,6	364,4				ok!	E1F	
7	13	261,4	221,9	707	250	1	ok!	E1G	
	14	347,3	361,5				ok!	E1H	
8	15	264,7	231,8	708	250	1	ok!	E1I	ya
	16	367,8	376,1				ok!	E1J	
9	17	265,5	234,6	707	250	1	ok!	E1K	
	18	367,7	384,0				ok!	E1L	
10	19	273,2	244,0	707	250	1	ok!	E1M	
	20	362,8	379,8				ok!	E1N	ya
11	21	274,8	249,4	708	250	1	ok!	E1O	
	22	379,1	388,2				ok!	E1P	
12	23	TRIAL/ISTIRAHAT		708	250	1	ok!	E1Q	
	24						ok!	E1R	
13	25	229	221	706	256	2	ok!	E2A	
	26	316	320				ok!	E2B	
14	27	228	221	707	256	2	ok!	E2E	
	28	328	352				ok!	E2F	ya
15	29	236	229	707	256	3	ok!	E3A	
	30	227	333				ok!	E3B	ya
16	31	235	227	707	256	3	ok!	E3E	
	32	346	363				ok!	E3F	
17	33	241	235	707	256	3	Aus Misrun	E3G	
	34	350	372				ok!	E3H	ya
18	35	250	239	708	256	3	ok!	E3I	
	36	340	349				ok!	E3J	ya
19	37	253	246	708	256	3	ok!	E3K	
	38	361	376				ok!	E3L	
20	39	254	247	708	256	3	ok!	E3M	ya
	40	354	366				ok!	E3N	ya
21	41	259	253	708	256	3	ok!	E3O	
	42	364	379				ok!	E3P	ya
22	43	261	255	709	256	3	ok!	E3Q	
	44	366	383				ok!	E3R	
23	45	264	259	709	256	3	ok!	E3S	ya
	46	376	395				ok!	E3T	ya
24	47	265	261	709	256	3	ok!	E3U	
	48	370	388				ok!	E3V	
25	49	266	269	709	256	3	ok!	E3W	
	50	369	390				ok!	E3X	ya
26	51	269	268	709	256	3	ok!	E3Y	ya
	52	375	394				ok!	E3Z	ya
27	53	269	270	709	262	3	ok!	E31	
	54	378	405				ok!	E32	ya
28	55	271	270	710	262	4	ok!	E4A	
	56	386	404				ok!	E4B	ya
29	57	272	271	710	262	4	ok!	E4E	ya
	58	386	390				ok!	E4F	ya
30	59	268	266	709	262	4	ok!	E4G	
	60	366	381				ok!	E4H	ya
31	61	273	271	709	262	4	ok!	E4I	
	62	380	404				ok!	E4J	
32	63	275	272	709	262	4	ok!	E4K	ya
	64	382	407				ok!	E4L	ya
33	65	247	245	708	262	4	ok!	E4M	
	66	337	346				ok!	E4N	
34	67	259	253	708	262	4	ok!	E4O	
	68	355	362				ok!	E4P	ya
35	69	276	266	707	262	4	ok!	E4Q	
	70	368	391				ok!	E4R	ya
36	71	274	269	708	262	4	ok!	E4S	
	72	374	396				ok!	E4T	ya
37	73	275	270	708	262	4	ok!	E4U	
	74	375	400				ok!	E4V	
38	75	stop produksi 15:06							
	76								

CHECK SHEET (20 september 2007)

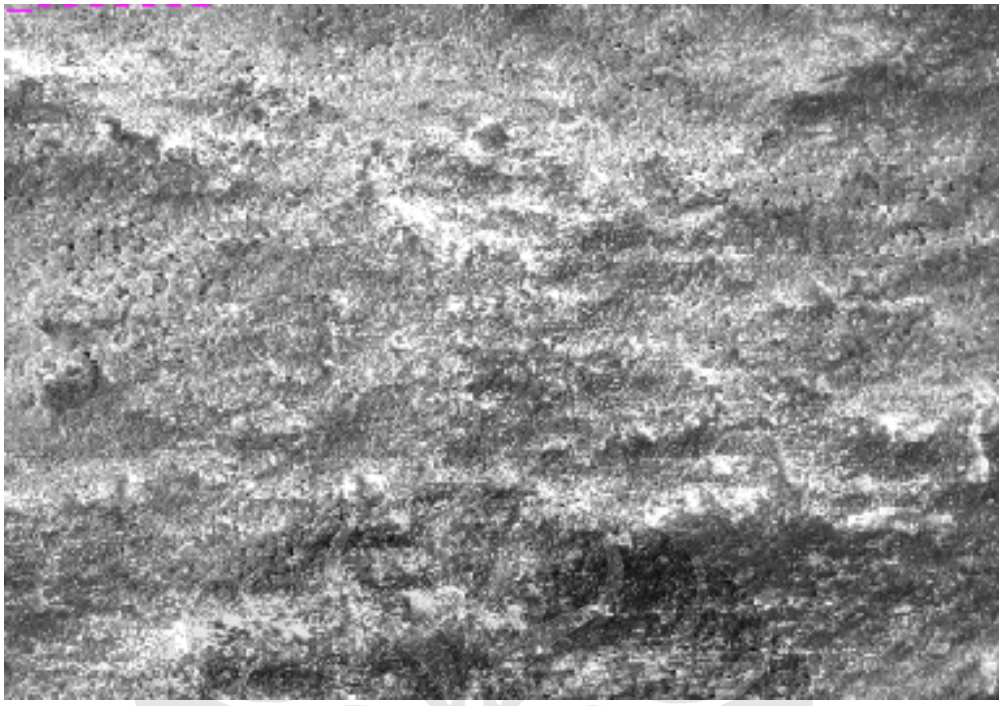
Temp melting : 800° C
Komposisi Grain refiner 0.072 wt. % Ti
Temp. penambahan grain refiner : 760 °C
Jenis Grain Refiner : Flux Coveral 2815
Waktu GBF : 8 menit

No Part	
1	Kiri
2	Kanan

No shot	No Part	Temp Dies (°C)		Temp molten (°C)	Tekanan mesin (kg/cm²)	Jam ke	Jenis cacat	Marking	Uji Bocor
1	1	TRIAL							
	2								
2	3								
	4								
3	5	262	254	702	250	0	ok!	FA	
	6	335	353				ok!	FB	
4	7	259	252	702	250	0	ok!	FE	
	8	342	355				ok!	FF	
5	9	262	256	702	250	0	ok!	FG	
	10	347	362				ok!	FH	ya
6	11	259	253	703	250	0	ok!	FI	
	12	333	341				ok!	FJ	ya
7	13	257	254	704	250	1	ok!	F1A	
	14	348	357				ok!	F1B	
8	15	262	258	705	250	1	ok!	F1E	
	16	358	371				ok!	F1F	
9	17	260	256	706	250	1	ok!	F1G	
	18	341	357				misrun	F1H	
10	19	262	259	706	250	1	ok!	F1I	
	20	349	359				ok!	F1J	
11	21	266	262	707	250	1	ok!	F1K	
	22	360	374				ok!	F1L	
12	23	249	235	710	250	1	ok!	F1M	
	24	328	333				ok!	F1N	
13	25	249	246	708	256	1	ok!	F1O	
	26	356	357				ok!	F1P	
14	27	249	248	708	256	1	ok!	F1Q	
	28	360	379				ok!	F1R	
15	29	253	247	708	256	1	ok!	F1S	
	30	367	351				ok!	F1T	
16	31	251	244	709	256	1	ok!	F1U	
	32	351	353				ok!	F1V	ya
17	33	254	248	709	256	2	inklusi pasir	F2A	
	34	348	345				ok!	F2B	
18	35	254	249	709	256	2	ok!	F2E	
	36	350	346				ok!	F2F	ya
19	37	260	255	709	256	2	ok!	F2G	
	38	362	357				ok!	F2H	
20	39	261	256	709	256	2	ok!	F2I	
	40	369	364				ok!	F2J	ya
21	41	258	252	709	256	2	ok!	F2K	ya
	42	355	352				ok!	F2L	ya
22	43	263	258	709	256	2	ok!	F2M	ya
	44	375	384				ok!	F2N	
23	45	265	261	709	256	2	ok!	F2O	
	46	380	380				ok!	F2P	
24	47	264	253	709	256	2	ok!	F2Q	
	48	368	376				ok!	F2R	
25	49	268	265	709	256	2	ok!	F2S	
	50	380	394				ok!	F2T	
26	51	267	264	709	256	2	ok!	F2U	
	52	372	386				ok!	F2V	
27	53	269	260	709	262	2	ok!	F2W	
	54	359	368				ok!	F2X	
28	55	263	257	710	262	3	ok!	F3A	
	56	359	368				ok!	F3B	
29	57	268	263	709	262	3	ok!	F3E	
	58	371	385				ok!	F3F	
30	59	267	261	709	262	3	ok!	F3G	
	60	365	377				ok!	F3H	ya
31	61	267	265	709	262	3	ok!	F3I	ya
	62	378	388				ok!	F3J	ya
32	63	269	266	709	262	3	ok!	F3K	
	64	378	377				ok!	F3L	
33	65	257	251	710	262	3	misrun	F3M	
	66	355	357				ok!	F3N	
34	67	260	255	709	262	3	ok!	F3O	
	68	382	380				ok!	F3P	
35	69	265	262	709	262	3	ok!	F3Q	
	70	381	372				ok!	F3R	
36	71	266	263	709	262	3	ok!	F3S	ya
	72	397	400				ok!	F3T	
37	73	269	266	709	262	3	ok!	F3U	
	74	383	379				ok!	F3V	
38	75	269	266	709	262	3	ok!	F3W	ya
	76	378	400				ok!	F3X	ya
39	77	271	268	709	262	3	ok!	F3Y	
	78	373	384				ok!	F3Z	ya
40	79	270	266	709	268	3	ok!	F31	ya
	80	384	399				ok!	F32	ya
41	81	273	268	709	268	4	ok!	F4A	ya
	82	373	376				ok!	F4B	ya
42	83	279	269	710	268	4	ok!	F4E	ya
	84	389	400				ok!	F4F	
43	85	273	268	709	268	4	ok!	F4G	
	86	384	396				ok!	F4H	
44	87	270	267	710	268	4	ok!	F4I	
	88	368	367				ok!	F4J	ya
45	89	270	266	709	268	4	ok!	F4K	
	90	374	37				ok!	F4L	
46	91	267	262	709	268	4	ok!	F4M	
	92	364	365				pasir gugur	F4N	
47	93	268	264	709	268	4	ok!	F4O	
	94	369	372				ok!	F4P	
48	95	272	264	710	268	4	ok!	F4Q	
	96	369	372				ok!	F4R	ya
49	97	268	260	709	268	4	ok!	F4S	
	98	380	390				ok!	F4T	
50	99	270	264	709	268	4	ok!	F4U	ya
	100	386	397				ok!	F4V	

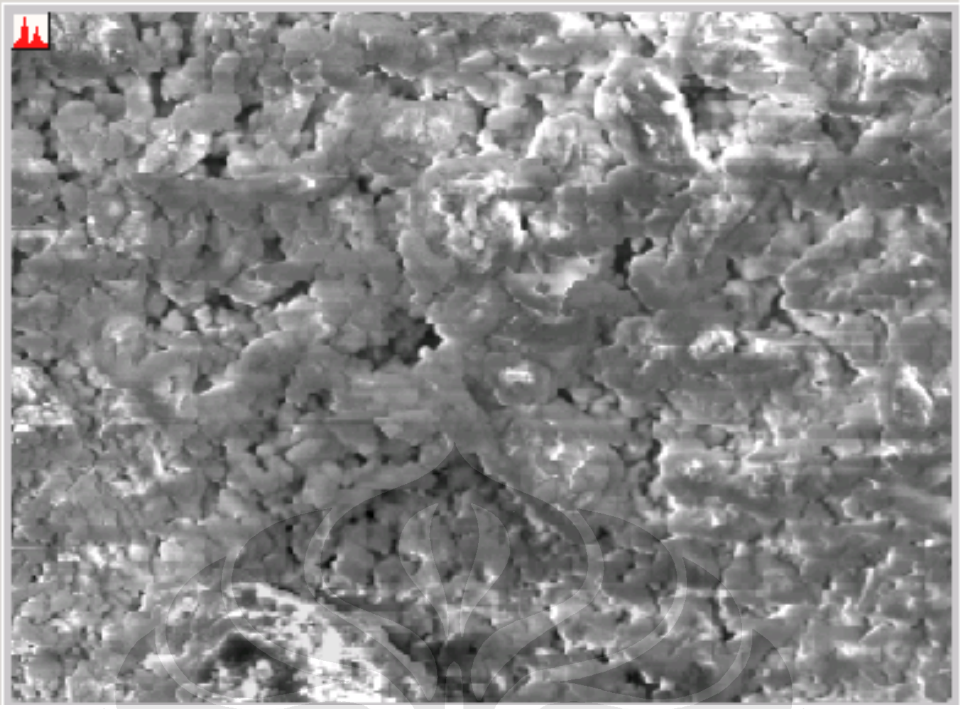
LAMPIRAN 7

COVERAL GR – 2815



Element	Class.	(keV)	mass%
B K*			
O			17.02
F K		0.677	33.12
Al K*			
Cl K		2.621	1.06
K K		3.312	33.64
Ti K		4.508	15.17
Total			100.00

Gambar mikrostruktur dan tabel komposisi Coveral GR pada perbesaran 200X



Element	Class.	(keV)	mass%
B K*			
O			16.58
F K		0.677	34.51
Na K		1.041	0.55
Cl K		2.621	1.62
K K		3.312	32.03
Ti K		4.508	14.72
Total			100.00

Gambar mikrostruktur dan tabel komposisi Coveral GR pada perbesaran 800X

F rata2 = 34,15 *wt.%*

Na rata2 = 0,55 *wt.%*

Cl rata2 = 1,34 *wt.%*

K rata2 = 32,84 *wt.%*

Ti rata2 = 14,95 *wt.%*

FOSECO

Edition 01/05 Technical Data Sheet

COVERAL* GR 2815

Sodium Free Granulated Flux for Grain Refining of Aluminium and Aluminium Alloys

General description

COVERAL GR 2815 is a sodium free grain refining granulated flux suitable for Aluminium and Aluminium alloys including those containing alloying amounts of magnesium. It is a universal grain refiner based on titanium and boron.
COVERAL GR 2815 when plunged into the melt reacts to form ttanium diboride and aluminium boride. These finely dispersed species are highly efficient nuclei that promote a fine equiaxed grain growth during solidification. This grain structure ensures excellent feeding characteristics leading to optimum mechanical properties in the casting.
This improvement in feeding properties is beneficial in sand casting application but is of particular benefit in gravity die casting where solidification rates are usually quite high.

Advantages

COVERAL GR 2815 is sodium free.
COVERAL GR 2815 is dust free in use and emits low fume during application.
Granulated fluxes can be used at reduced application rates compared to powder fluxes.

Application

Any dross present on the melt surface should be carefully removed. The required amount of COVERAL GR 2815 is then placed on the melt surface and plunged to the bottom of the melt using a clean and preheated plunging tool and stirred vigorously into the melt. After the reaction is complete the melt surface should be drossed off using a suitable skimming tool.

Any subsequent degassing by tablets or by FDU impeller treatment can be done without any detrimental effects to the grain refining efficiency.

Application temperature

700 °C and higher.

Addition rate

0.05 - 0.15 % of the metal weight, depending on alloy type.

Packing

25 Kg polyethylene lined multi-ply paper sacks.

Storage

Like all fluxes, COVERAL GR 2815 should be stored in a dry place.
Close opened packages or storage bins securely after use.

Labelling

Xn Harmful.

Health and safety

For safety reasons this product must be used only in accordance with the instructions for use contained in this Technical Data Sheet.
The Material Safety Data Sheet for this product is available on request.

Further remarks

The data given in this leaflet are only guide values and do not represent a specification.
All rights to make technical changes to improve the product are reserved.

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