





Lampiran 1. Komposisi kimia sampel 1

Department of Metallurgy and Materials Engineering
UNIVERSITY OF INDONESIA

CHEMICAL COMPOSITION TEST REPORT

Contract No. / No. Kontrak - : 710

Standards / Standar : ASTM A751

Customer / Pemberi Kerja : CMPFA-Pak Johny Team

Materials / Material : T1 SRK

	Fe	C	Si	Mn	P	S	Cr	Mo
1	99.351	0.0454	0.0090	0.235	0.0076	0.0124	0.0741	< 0.0050
2	99.337	0.0582	0.0151	0.236	0.0070	0.0137	0.0743	< 0.0050
3	99.329	0.0527	0.0155	0.231	0.0072	0.0155	0.0728	< 0.0050
Ave	99.339	0.0521	0.0132	0.234	0.0073	0.0139	0.0737	< 0.0050
	Ni	Al	Co	Cu	Nb	Ti	V	W
1	0.104	0.0652	0.0116	0.0331	< 0.0020	< 0.0020	0.0034	< 0.0150
2	0.106	0.0681	0.0115	0.0330	< 0.0020	< 0.0020	0.0038	< 0.0150
3	0.107	0.0668	0.0109	0.0319	< 0.0020	< 0.0020	0.0033	< 0.0150
Ave	0.106	0.0667	0.0113	0.0326	< 0.0020	< 0.0020	0.0035	< 0.0150
	Pb	Sn	B	Ca	Zr	As	Bi	
1	< 0.0250	< 0.0020	< 0.0010	0.0004	0.0087	0.0072	< 0.0300	
2	< 0.0250	< 0.0020	< 0.0010	> 0.0010	0.0076	0.0071	< 0.0300	
3	< 0.0250	< 0.0020	< 0.0010	0.0008	0.0072	0.0069	< 0.0372	
Ave	< 0.0250	< 0.0020	< 0.0010	0.0007	0.0078	0.0071	< 0.0300	

Datum / date
9/20/2007

Tested by / Diuji oleh :

Dhibas

Approved by / Disetujui oleh :

Deny Jaya



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Lampiran 1. Komposisi kimia sampel 2



Department of Metallurgy and Materials Engineering
UNIVERSITY OF INDONESIA

CHEMICAL COMPOSITION TEST REPORT

Contract No. / No. Kontrak - : 710

Standards / Standar : ASTM A751

Customer / Pemberi Kerja : CMPFA-Pak Johnny Team

Materials / Material : T3 SRK

	Fe	C	Si	Mn	P	S	Cr	Mo
1	98.732	0.0597	< 0.0050	0.202	0.0167	0.0128	0.210	0.0062
2	98.747	0.0588	< 0.0050	0.201	0.0194	0.0150	0.210	0.0051
3	98.788	0.0503	< 0.0050	0.202	0.0165	0.0145	0.206	0.0054
Ave	98.756	0.0563	< 0.0050	0.202	0.0175	0.0141	0.209	0.0056

	Ni	Al	Co	Cu	Nb	Ti	V	W
1	0.543	0.0335	0.0322	0.0740	< 0.0020	< 0.0020	0.0042	< 0.0150
2	0.548	0.0330	0.0325	0.0747	< 0.0020	< 0.0020	0.0033	< 0.0150
3	0.539	0.0327	0.0314	0.0668	< 0.0020	< 0.0020	0.0043	< 0.0150
Ave	0.544	0.0330	0.0320	0.0718	< 0.0020	< 0.0020	0.0039	< 0.0150

	Pb	Sn	B	Ca	Zr	As	Bi
1	< 0.0250	0.0033	< 0.0010	0.0005	0.0074	0.0055	0.0374
2	< 0.0250	0.0040	< 0.0010	0.0005	0.0065	0.0078	< 0.0300
3	< 0.0250	0.0027	< 0.0010	0.0004	0.0065	0.0059	< 0.0300
Ave	< 0.0250	0.0034	< 0.0010	0.0005	0.0068	0.0064	< 0.0300

Datum / date
9/20/2007

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Dennydaya

CMPFA
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Lampiran 3. Komposisi kimia sampel 3



Lampiran 3. Komposisi kimia sampel 3
 Department of Metallurgy and Materials Engineering
 UNIVERSITY OF INDONESIA

CHEMICAL COMPOSITION TEST REPORT

Contract No. / No. Kontrak - : 310

Standards / Standar : ASTM A751

Customer / Pemberi Kerja : CMPFA-Pak Johny Team

Materials / Material : T5 SRK

	Fe	C	Si	Mn	P	S	Cr	Mo
1	99.550	0.0562	< 0.0050	0.202	0.0091	0.0108	0.0148	< 0.0050
2	99.541	0.0536	0.0051	0.200	0.0088	0.0100	0.0144	< 0.0050
3	99.562	0.0483	0.0061	0.197	0.0073	0.0082	0.0148	< 0.0050
Ave	99.551	0.0527	< 0.0050	0.200	0.0084	0.0097	0.0146	< 0.0050

	Ni	Al	Co	Cu	Nb	Ti	V	W
1	< 0.0050	0.0372	0.0047	0.0090	< 0.0020	< 0.0020	0.0023	< 0.0150
2	< 0.0050	0.0394	0.0047	0.0109	< 0.0020	< 0.0020	0.0023	< 0.0150
3	< 0.0050	0.0378	0.0042	0.0096	< 0.0020	< 0.0020	0.0022	< 0.0150
Ave	< 0.0050	0.0382	0.0046	0.0098	< 0.0020	< 0.0020	0.0023	< 0.0150

	Pb	Sn	B	Ca	Zr	As	Bi
1	< 0.0250	< 0.0020	< 0.0010	> 0.0010	< 0.0020	< 0.0050	0.0921
2	< 0.0250	< 0.0020	< 0.0010	> 0.0010	0.0059	0.0373	0.0886
3	< 0.0250	< 0.0020	< 0.0010	> 0.0010	0.0055	< 0.0050	0.0893
Ave	< 0.0250	< 0.0020	< 0.0010	> 0.0010	0.0044	0.0055	0.0900

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