

LAMPIRAN

PMMA/Karbon /Abaka Tanpa Alkali							
No	d (mm)	b (mm)	Beban (N)	ΔL (mm)	Mod.Elast (Gpa)	Teg. Tarik (Mpa)	Elongation (%)
1	3,6	13	3520	2,10	5909,65	75,21	1,27
2	3,6	13	3400	2,35	5100,93	72,65	1,42
3	3,3	13	3270	2,25	5589,74	76,22	1,36
4	3,2	13	2870	1,90	5991,27	68,99	1,15
5	3,1	13	2940	3,20	3761,63	72,95	1,94
Min					3761,63	68,99	1,15
Max					5909,65	76,22	1,94
Rata-Rata					5270,64	73,03	1,46
Standar Deviasi					403,72	3,23	0,12

PMMA/Karbon/Abaca alkali 4 jam							
No	d (mm)	b (mm)	Beban (N)	ΔL (mm)	Mod.Elast (Gpa)	Teg. Tarik (Mpa)	Elongation (%)
1	3,3	13,0	3850	2,60	5695,27	89,74	1,58
2	3,2	13,0	3730	2,90	5603,97	89,66	1,60
3	3,3	13,0	3910	3,00	5768,49	91,14	1,58
4	3,5	13,0	3600	2,50	5221,98	79,12	1,52
5	3,4	13,0	3870	2,60	5556,47	87,56	1,58
Min					5221,98	79,12	1,52
Max					5768,49	91,14	1,60
Rata-Rata					5569,24	87,45	1,57
Standar Deviasi					210,68	4,83	0,03

PMMA/Karbon/Abaca Alkali 12 Jam							
No	d (mm)	b (mm)	Beban (N)	ΔL (mm)	Mod.Elast (Gpa)	Teg. Tarik (Mpa)	Elongation (%)
1	3,5	12,7	4240	2,95	5335,27	95,39	1,79
2	3,3	12,7	3970	2,70	5788,86	94,73	1,64
3	3,0	12,7	3590	2,60	5979,71	94,23	1,58
4	3,0	12,7	3180	2,27	6066,81	83,46	1,38
5	3,4	12,7	4180	2,70	5915,80	96,80	1,64
Min					5335,27	83,46	1,38
Max					6066,81	96,80	1,79
Rata-Rata					5784,07	92,13	1,60
Standar Deviasi					287,88	5,37	0,15

PMMA/Karbon/Abaca Alkali 36 Jam							
No	d (mm)	b (mm)	Beban (N)	ΔL (mm)	Mod.Elast (Gpa)	Teg. Tarik (Mpa)	Elongation (%)
1	3,6	12,7	4740	3,10	5518,16	103,67	1,88
2	3,4	12,7	4370	2,85	5859,19	101,20	1,73
3	3,5	12,7	4240	2,60	6053,47	95,39	1,58
4	3,3	12,7	4210	2,88	5755,14	100,45	1,75
5	3,2	12,7	4160	2,72	6209,47	102,36	1,65
Min					5518,16	95,39	1,58
Max					6209,47	103,67	1,88
Rata-Rata					5874,72	100,31	1,72
Standar Deviasi					267,20	3,17	0,11

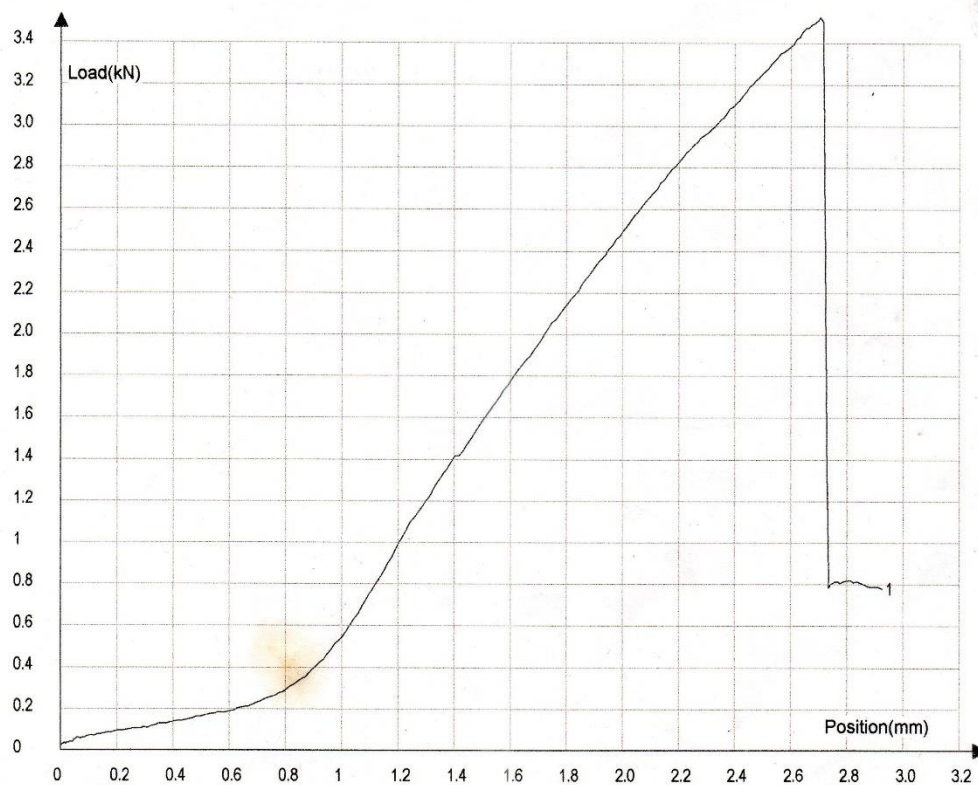
Grafik Tanpa Alkalisasi

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.60		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	46.80			75.21		3.52			



Tester: Audit:

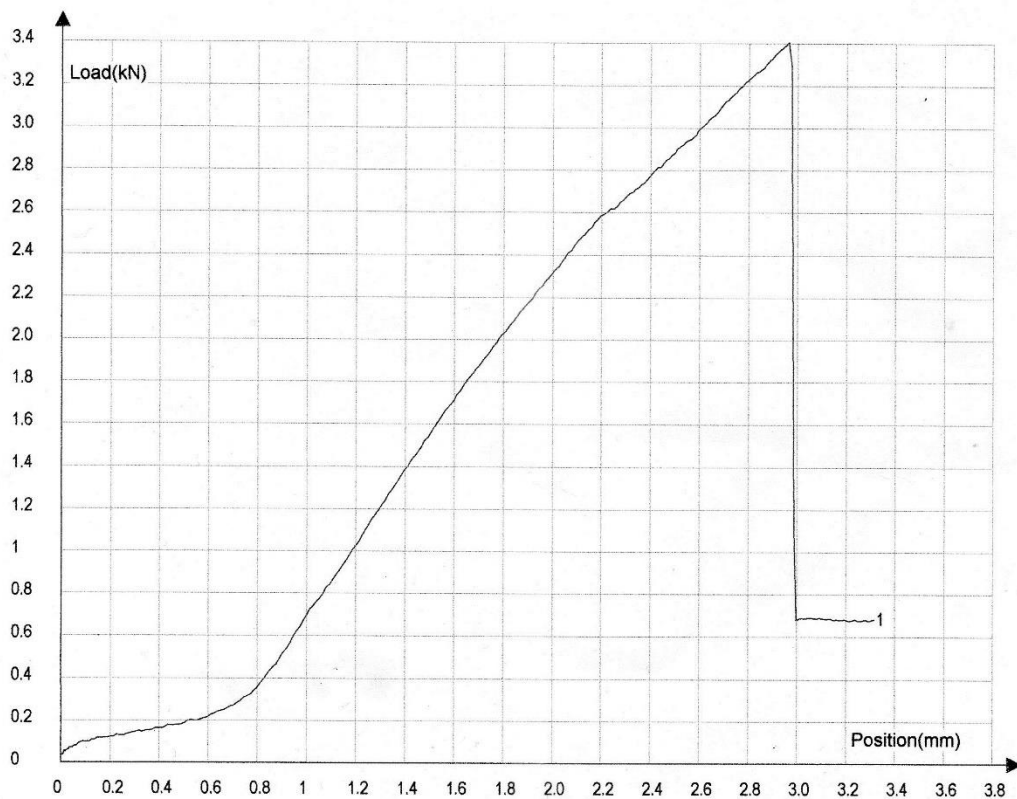
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.60		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	46.80			72.65		3.40			



Tester:

Audit:

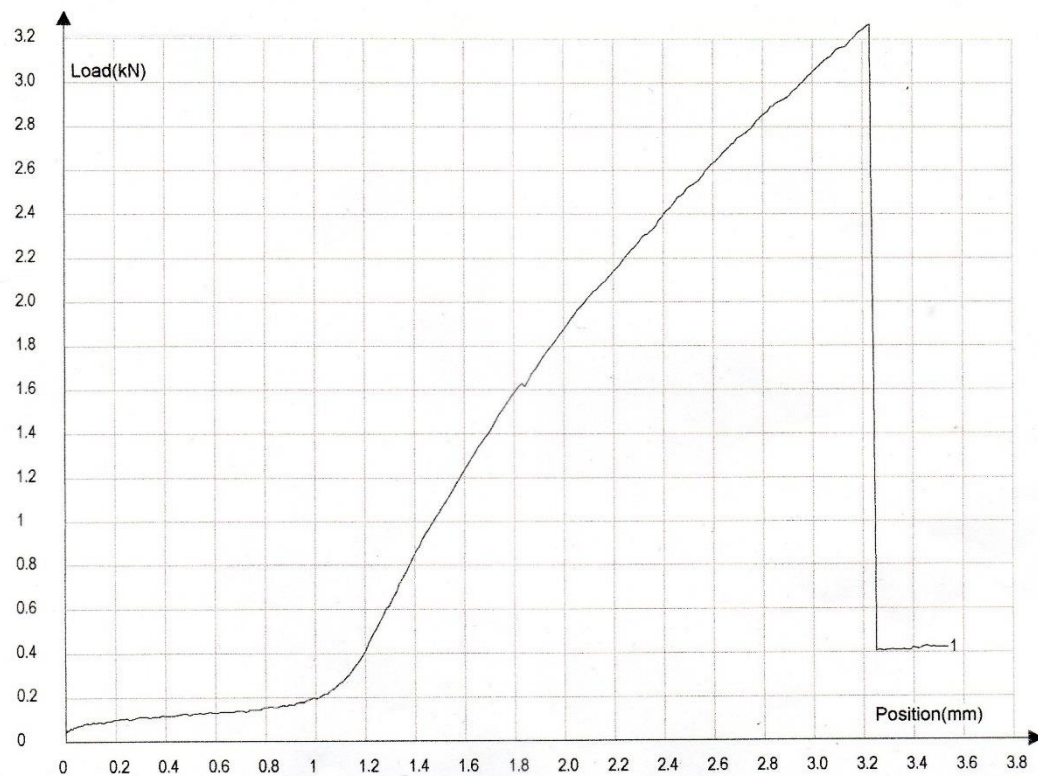
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.30		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
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Tester:

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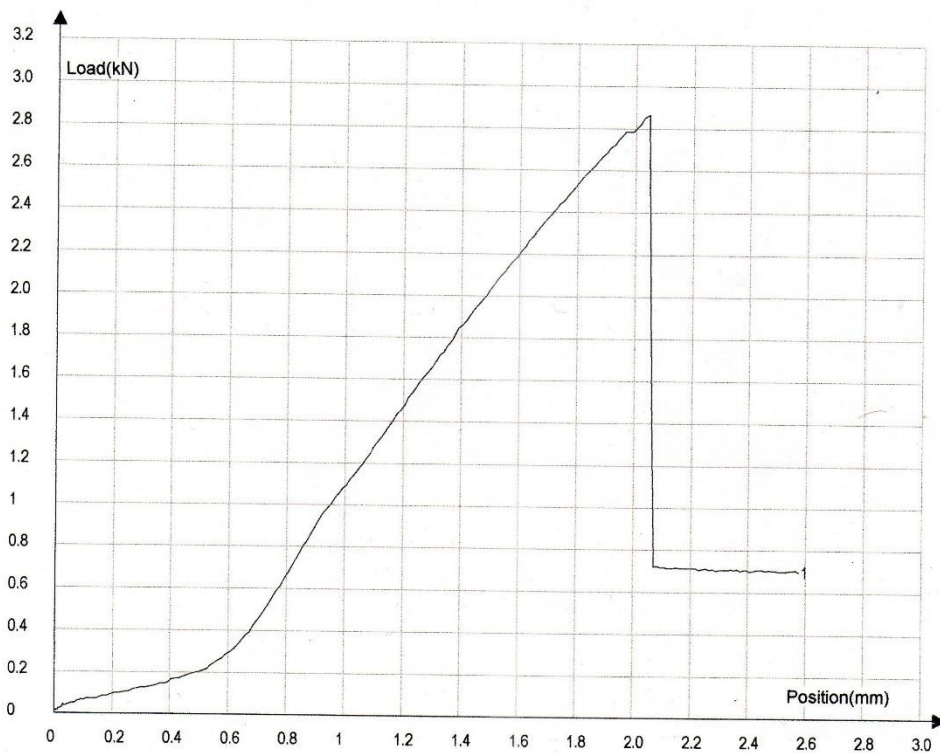
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.20		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
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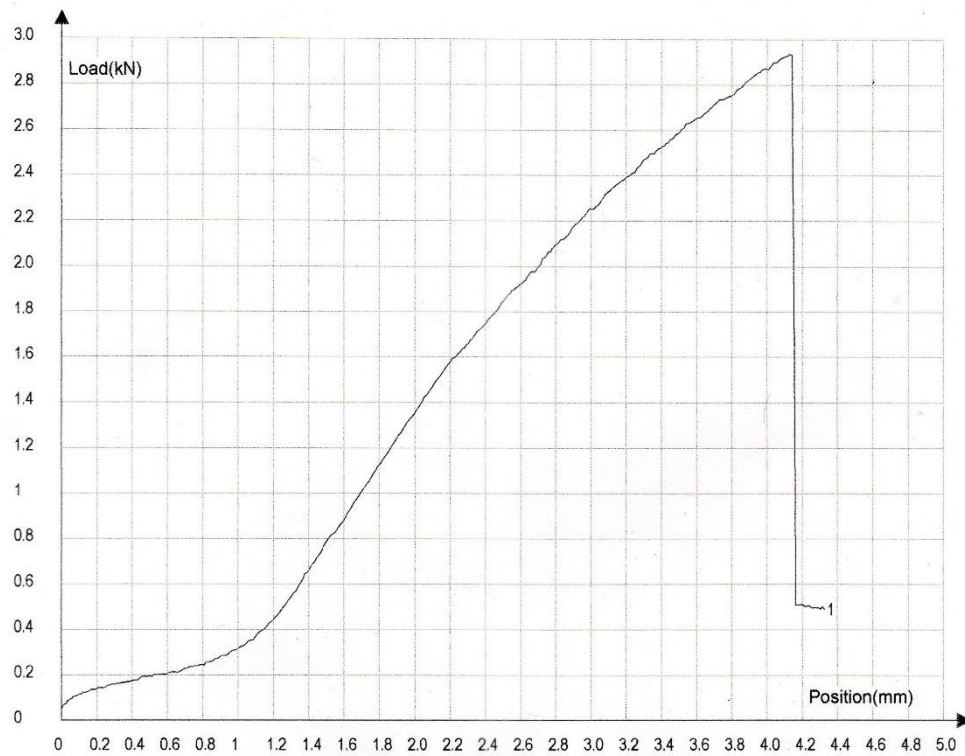
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

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ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.10		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
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Grafik Alkalisasi 4 jam

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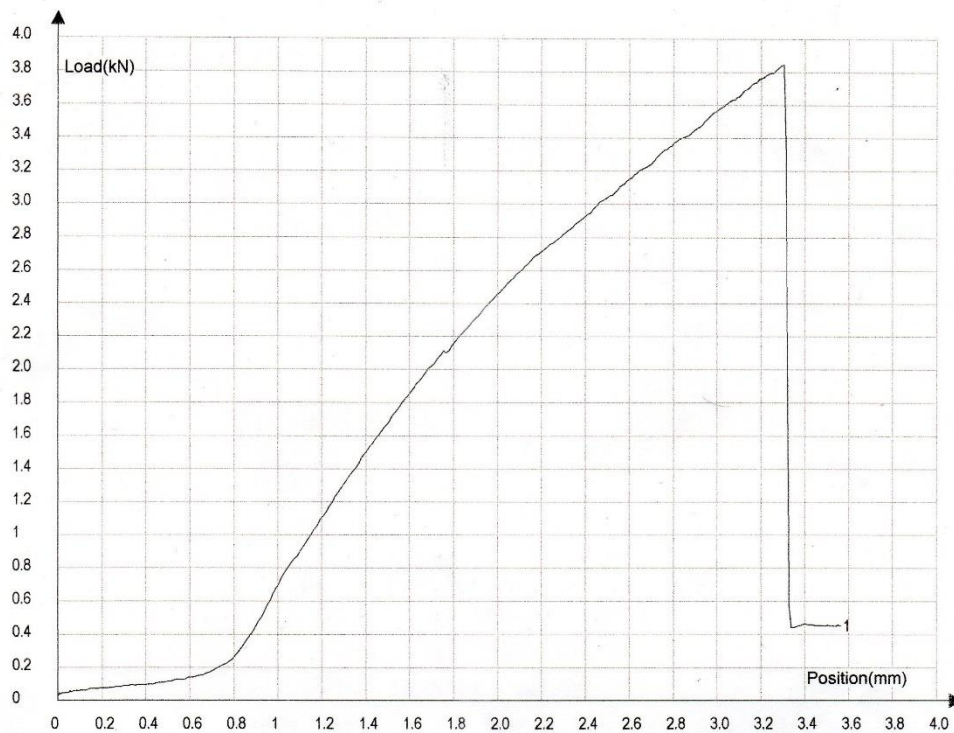
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

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ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.30		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
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Tester:

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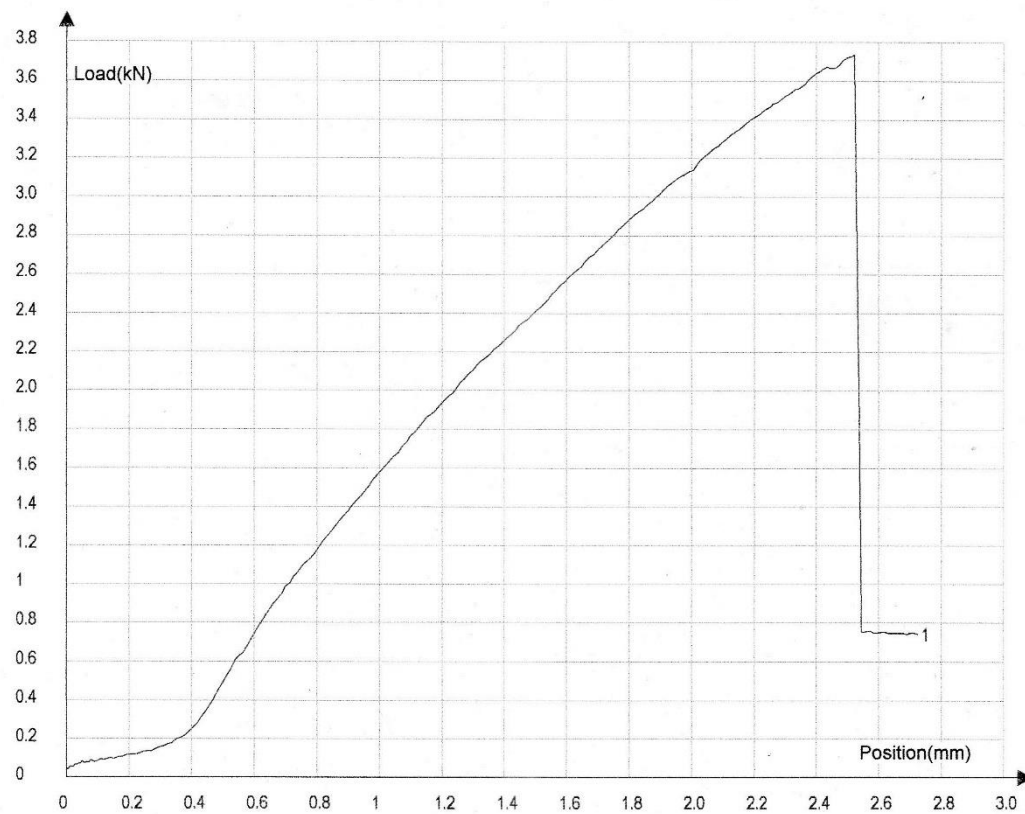
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.20		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	41.60			89.66		3.73			

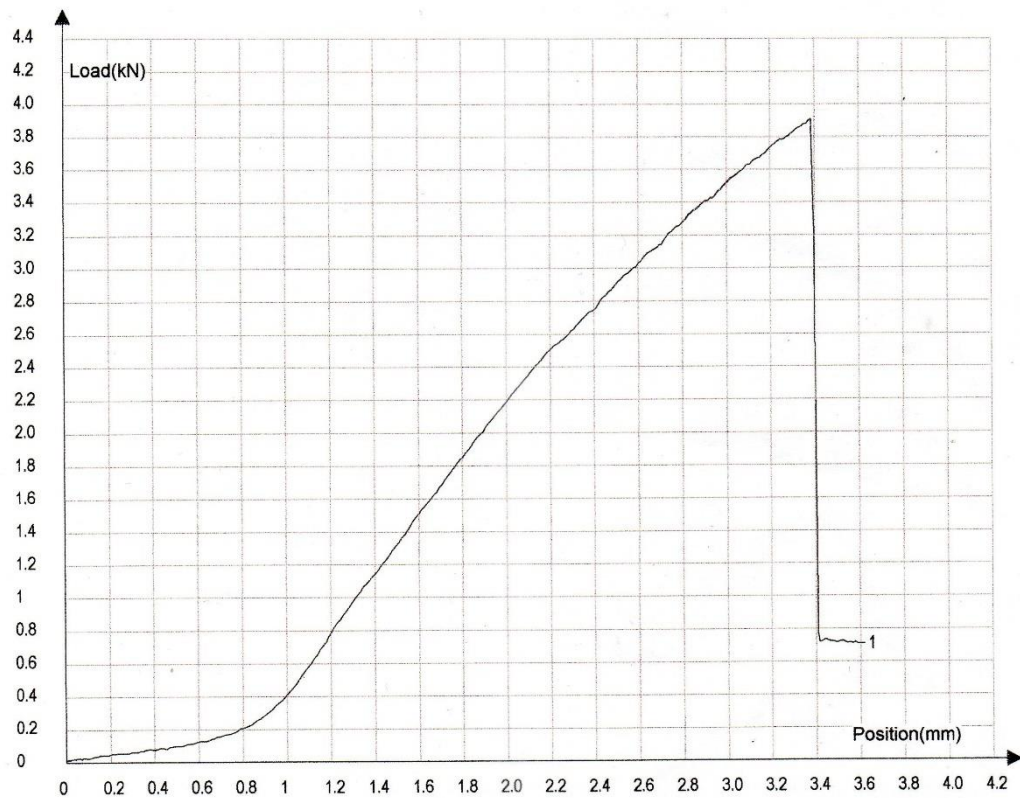


Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.30		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	42.90			91.14		3.91			



Tester: Audit:

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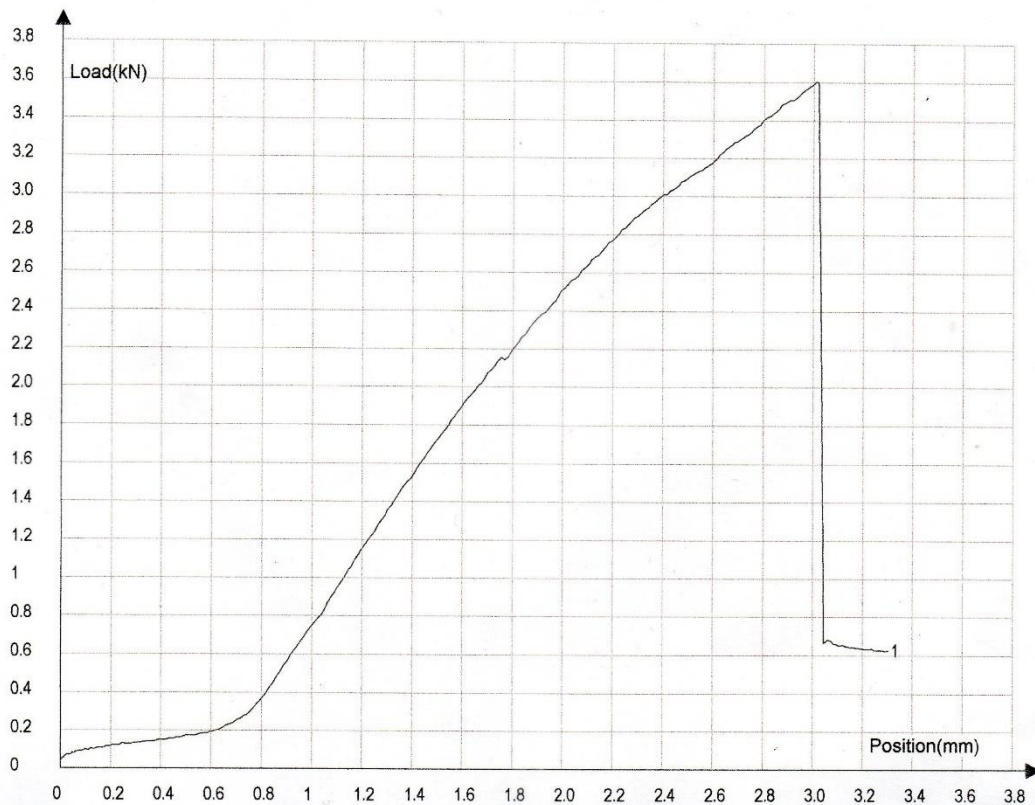
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.50		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	45.50			79.12		3.60			



Tester:

Audit:

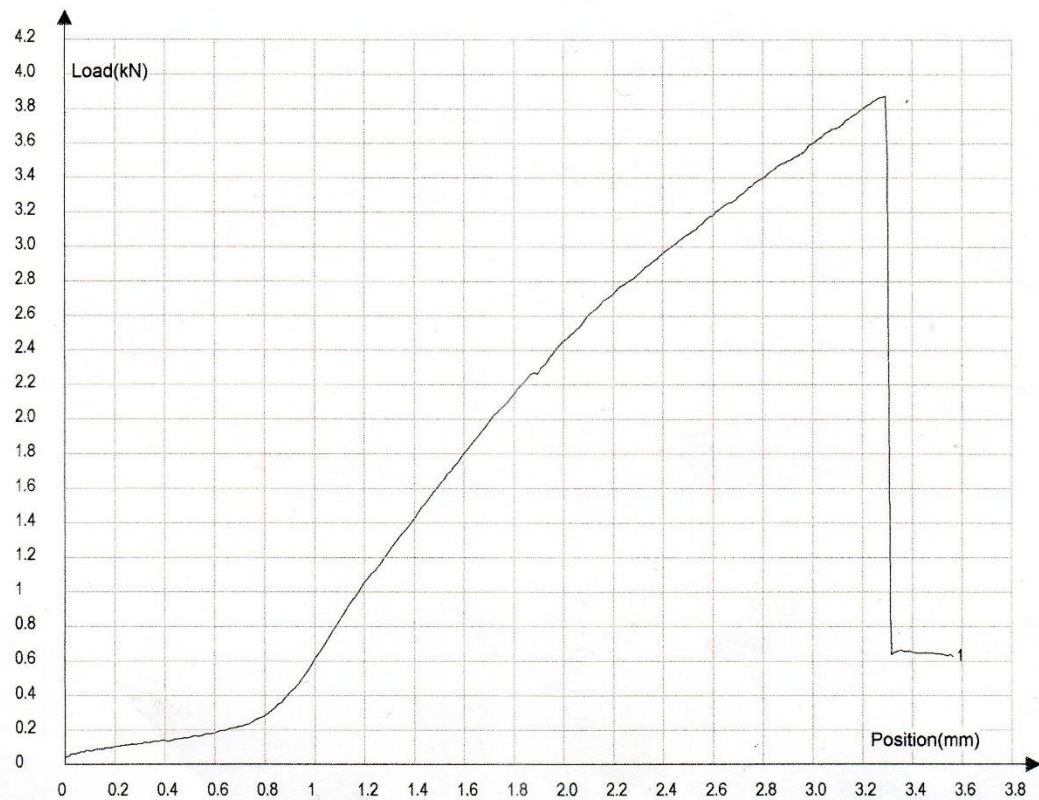
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.40		13.00		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	44.20			87.56		3.87			



Tester:

Audit:

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Grafik Alkalisasi 12 Jam

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Print Date: 4/22/201

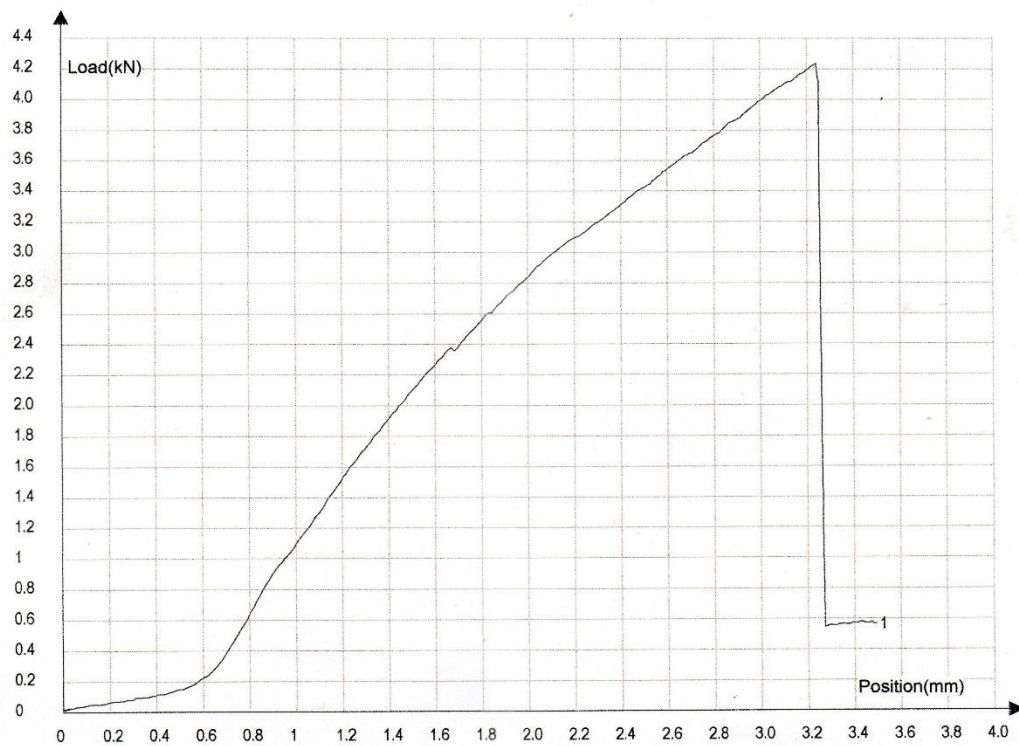
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.50		12.70		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	44.45			95.39		4.24			



Tester:

Audit:

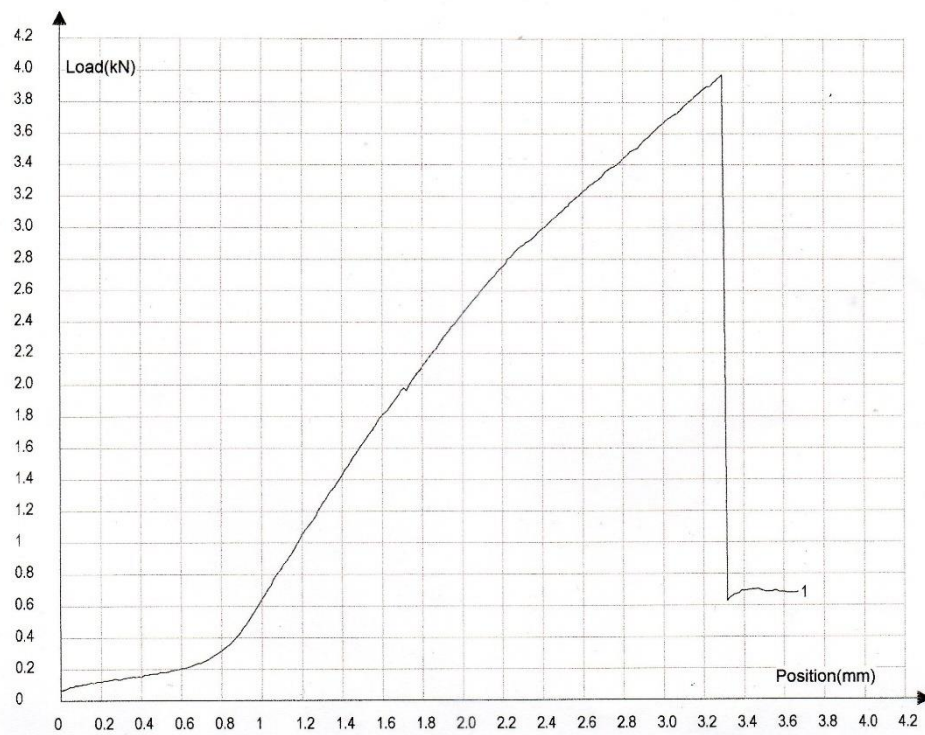
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.30		12.70		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	41.91			94.73		3.97			



Tester:

Audit:

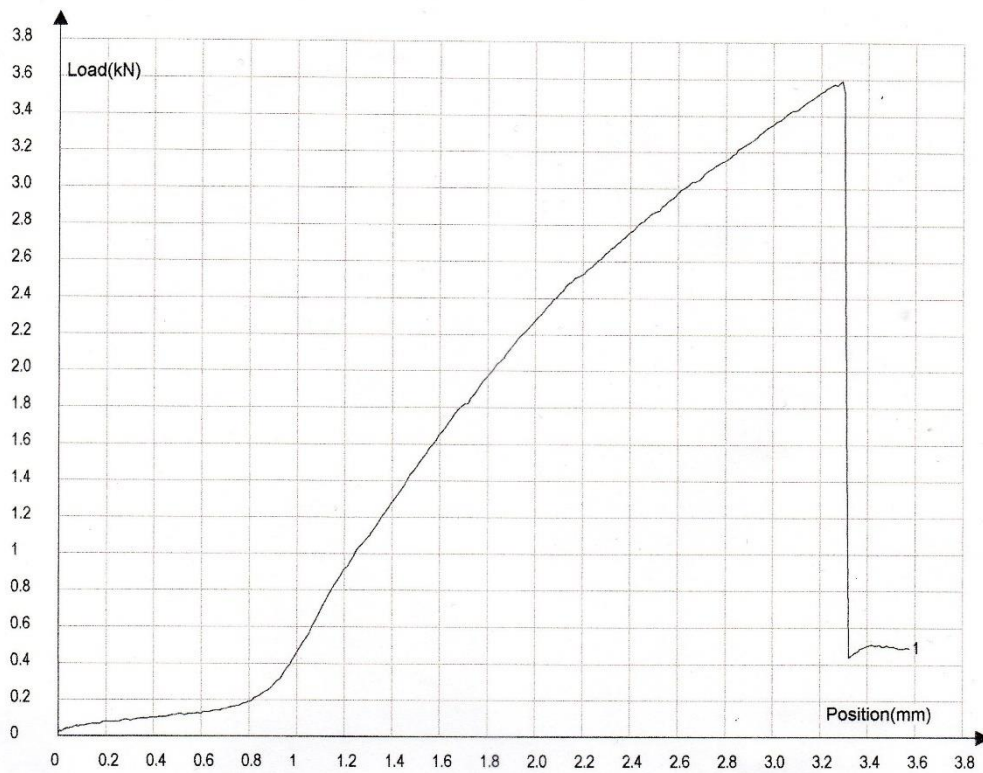
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.00		12.70		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	38.10			94.23		3.59			

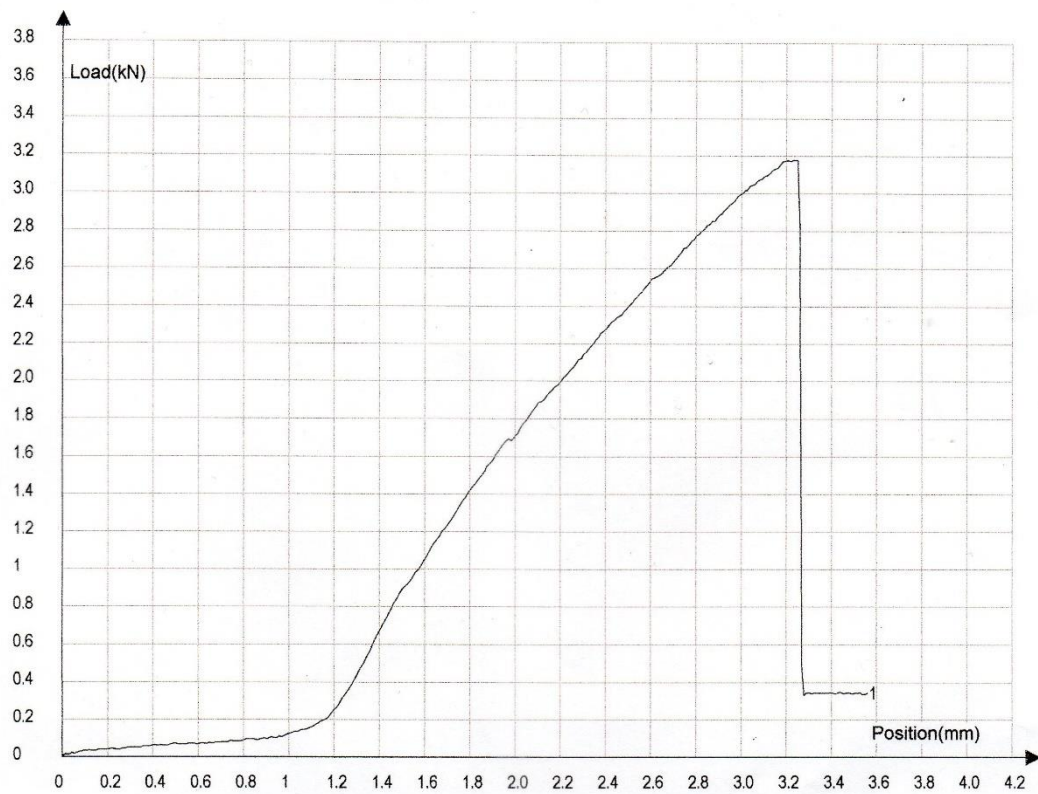


Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.00		12.70		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	38.10			83.46		3.18			

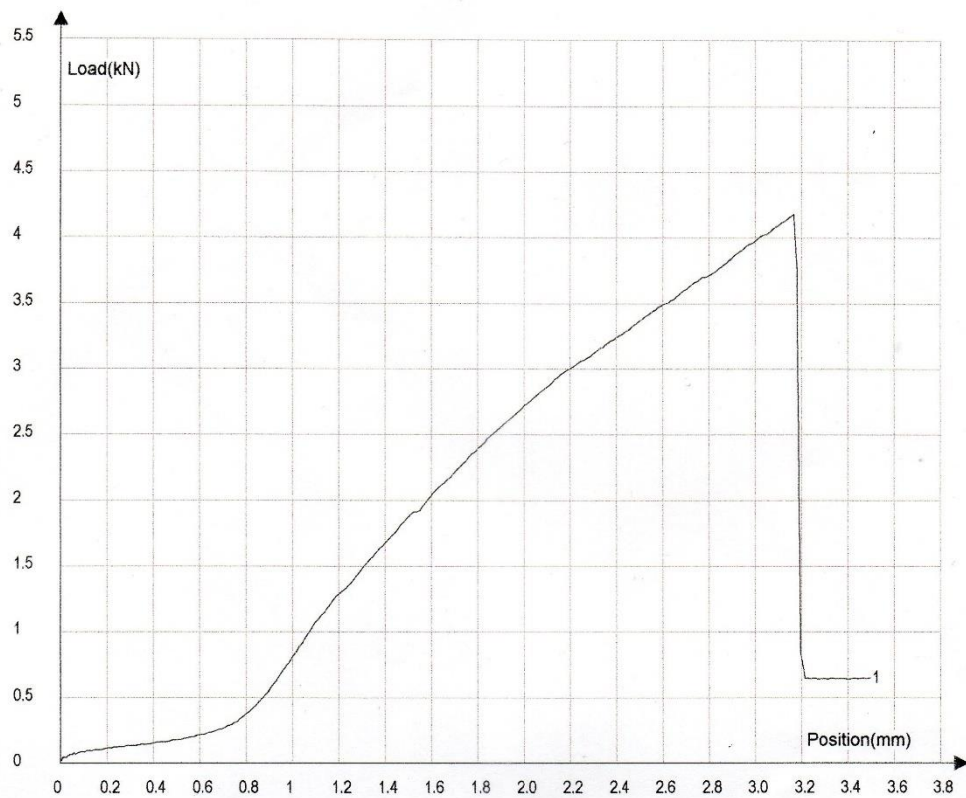


Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.40		12.70		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	43.18			96.80		4.18			



Grafik Alkalisasi 36 jam

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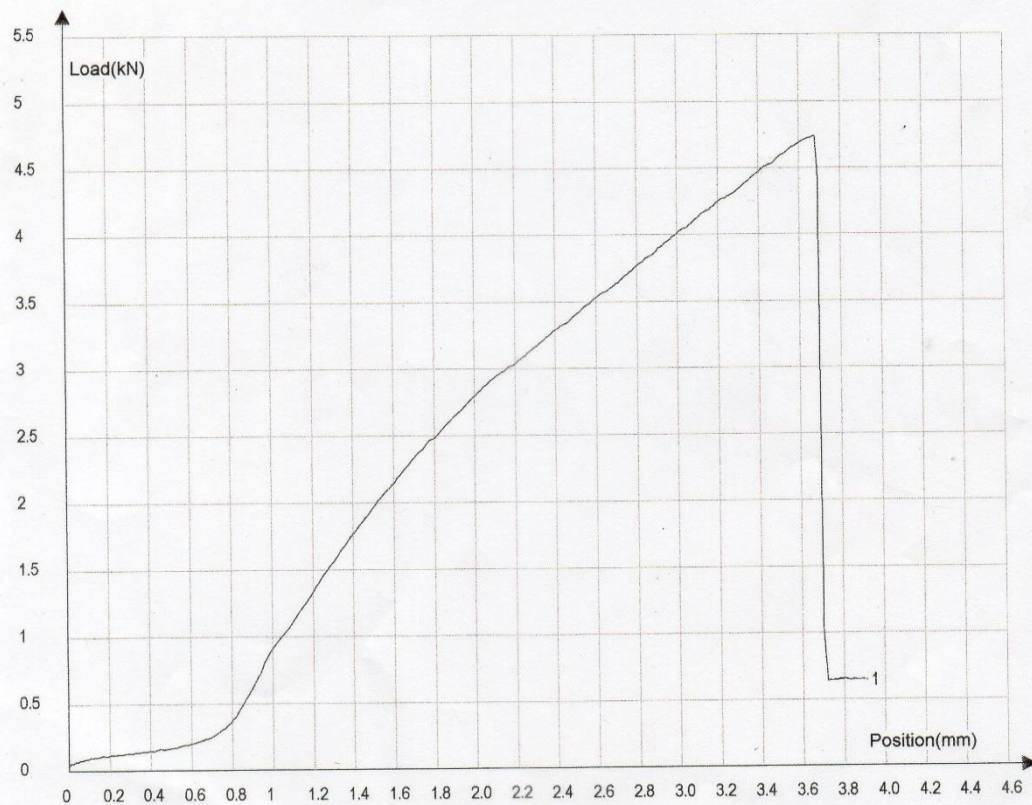
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.60		12.70		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	45.72			104		4.74			



Tester:

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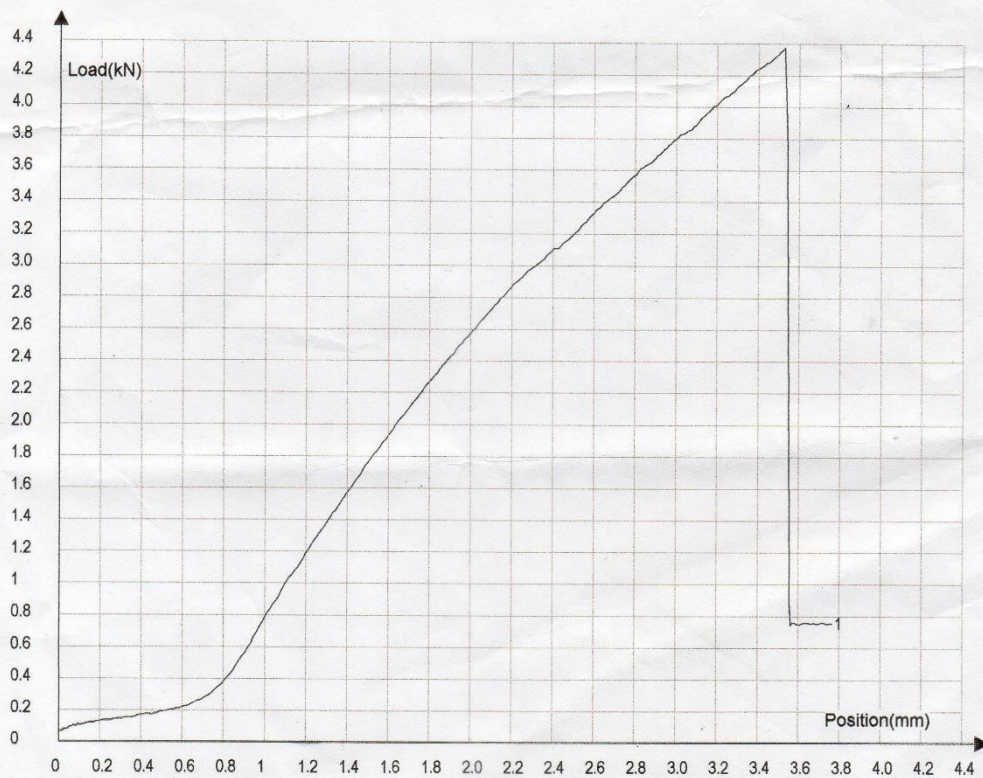
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Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.40		12.70		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	43.18			101		4.37			

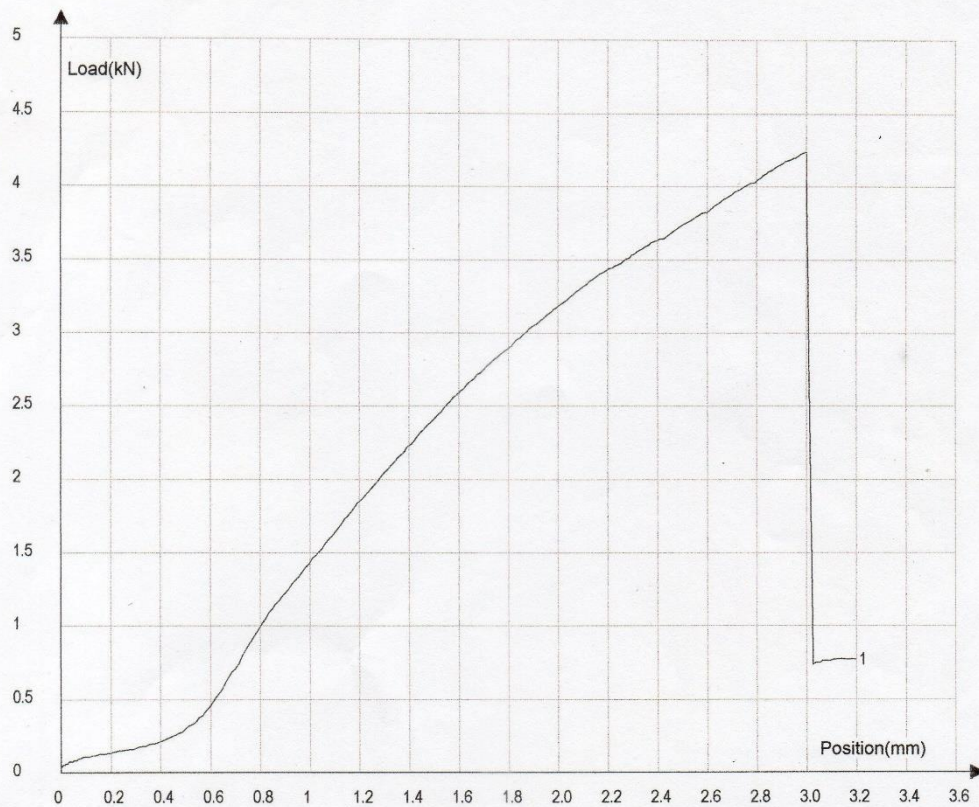


Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.50		12.70		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	44.45			95	4.24				

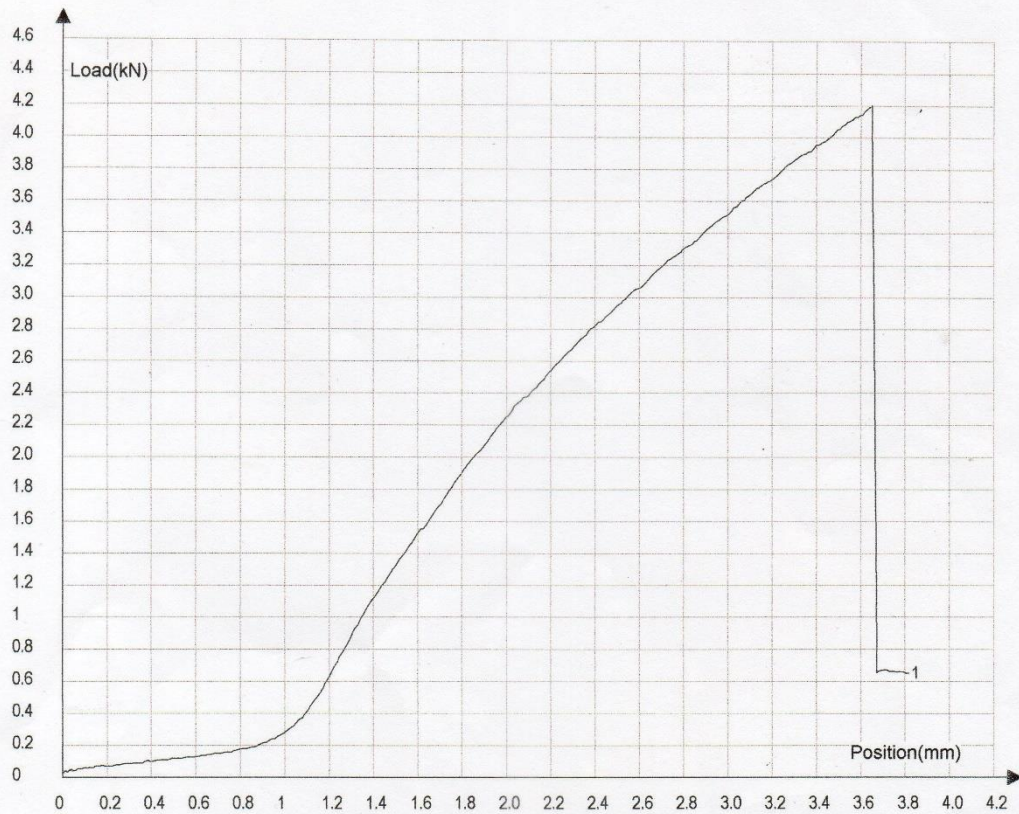


Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
NO.1	3.30		12.70		115.00	165.00			

Name	So	Su	ReH	Rm	ReL	Fm	E	A	Z
ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
NO.1	41.91			100		4.21			

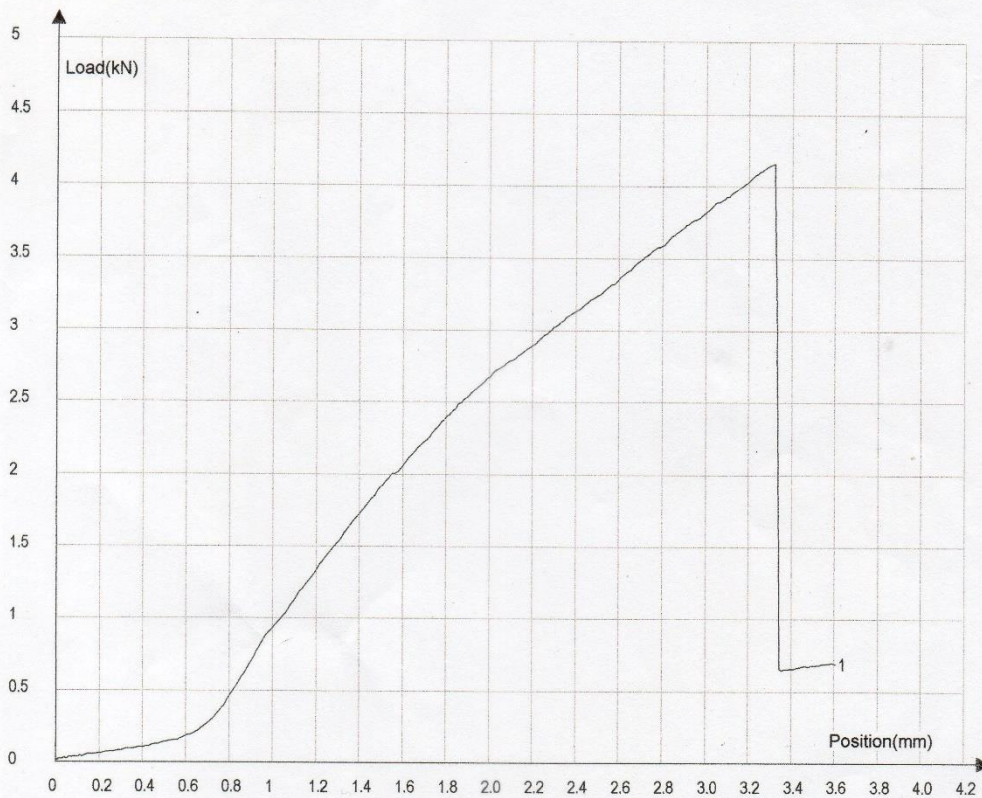


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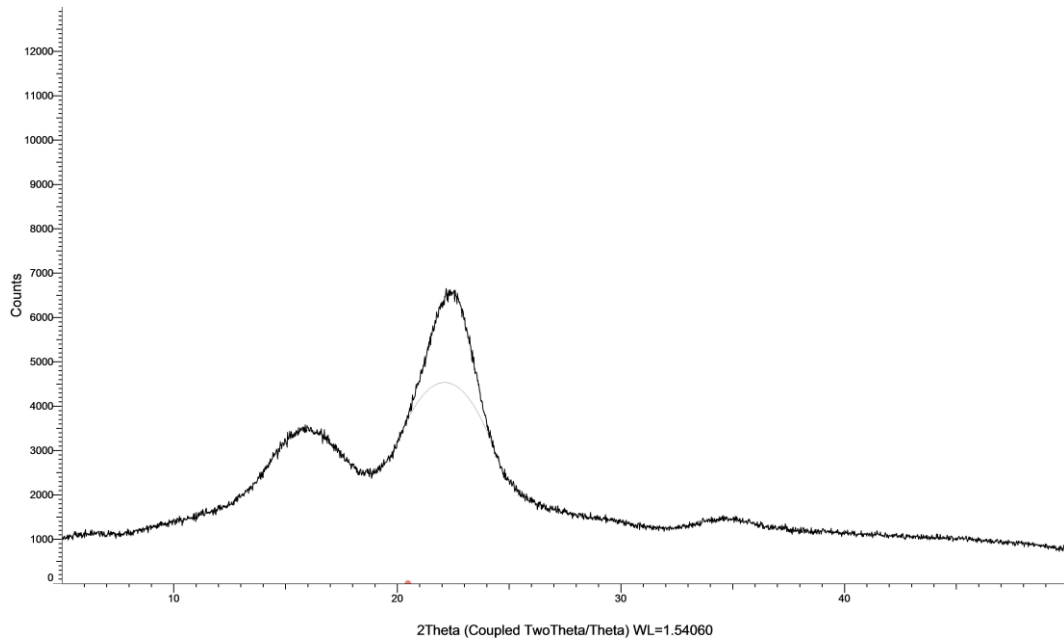
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Name	a	au	b	bu	Le	Lo	Lu	ep	et
ID	mm	mm	mm	mm	mm	mm	mm	%	%
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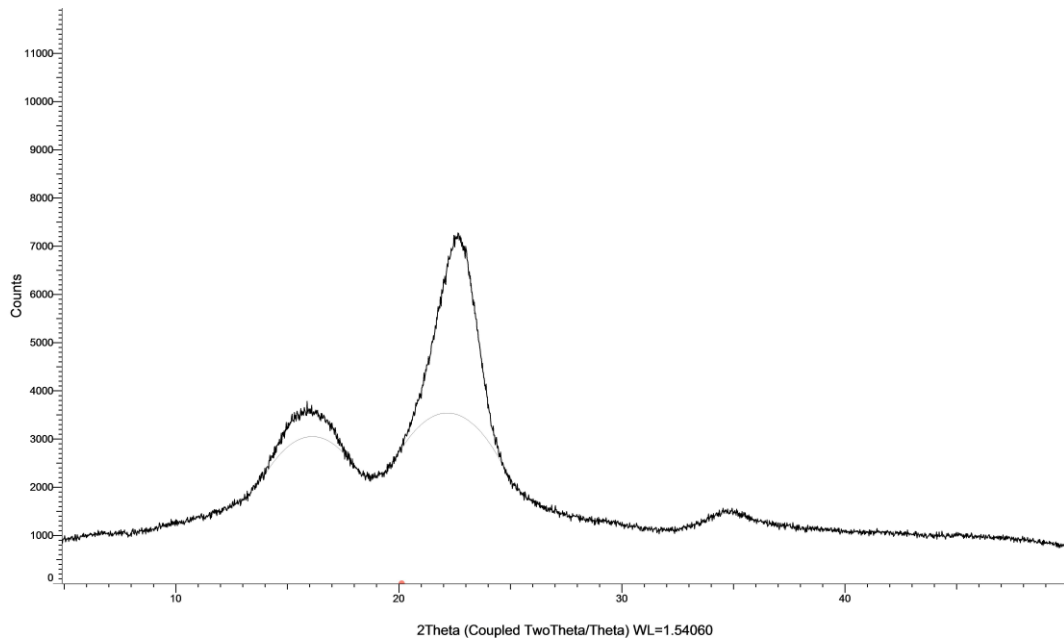
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ID	mm ²	mm ²	MPa	MPa	MPa	kN	MPa	%	%
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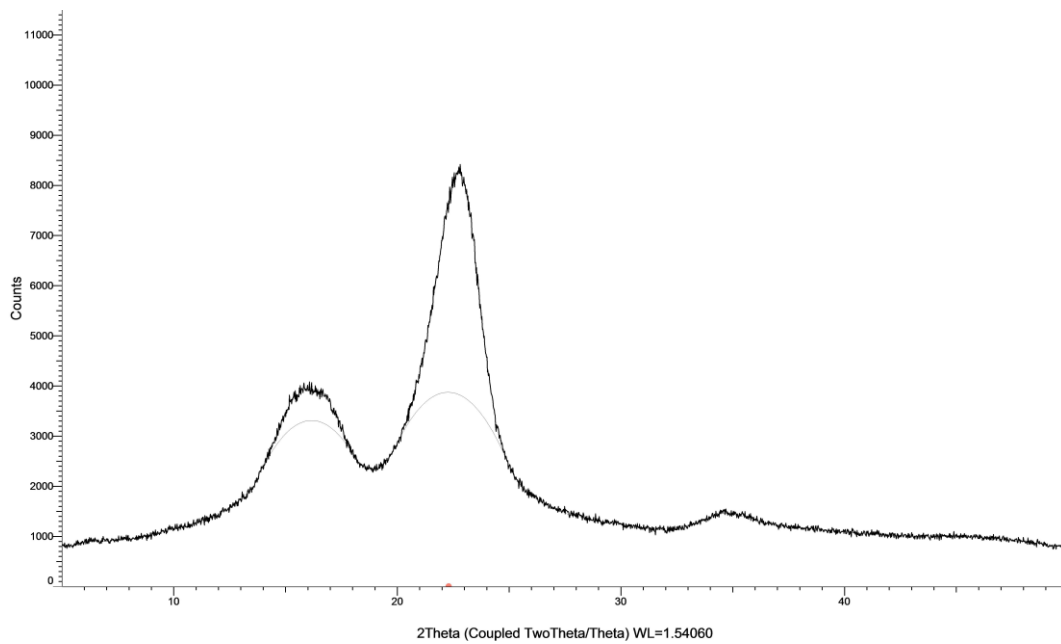
Grafik XRD Tanpa Alkalisasi



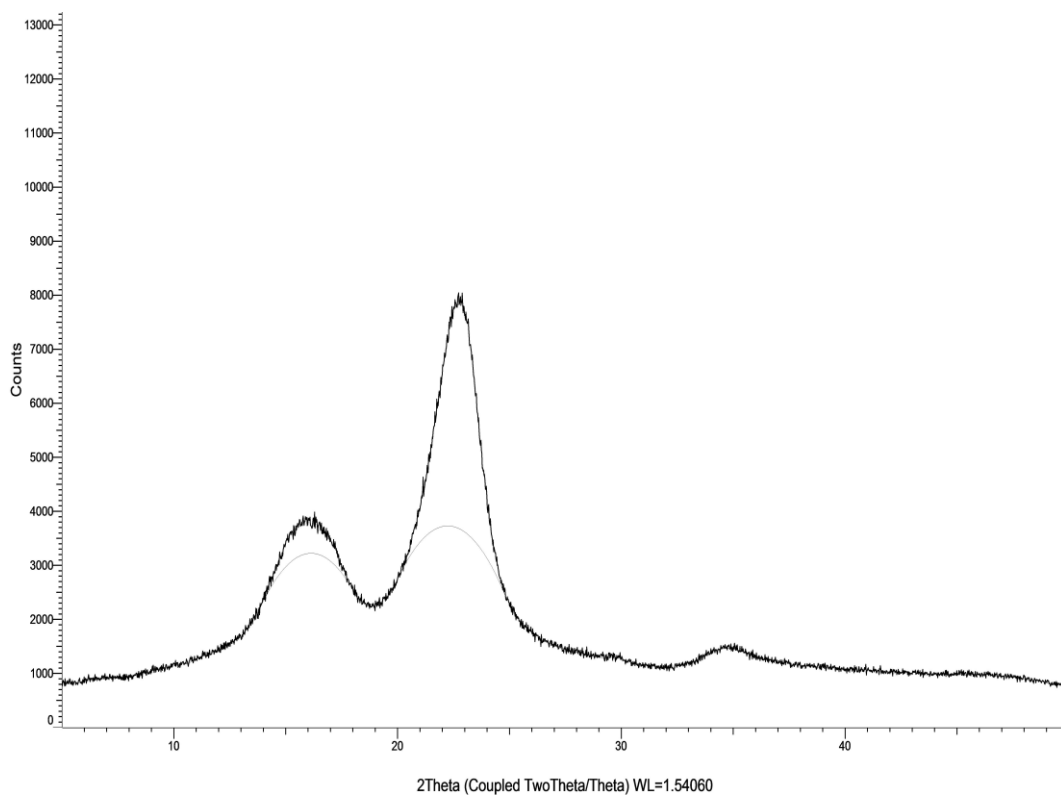
Grafik XRD Alkalisasi 4 Jam



Grafik XRD Alkalisasi 12 Jam



Grafik XRD Alkalisasi 36 jam



FTIR							
36 jam		12 jam		4 jam		Untreated	
293,18003	21,70548	293,18003	34,588776	293,18003	6,477907	293,18003	6,934213
300,8953	10,426141	300,8953	16,099314	300,8953	2,42705	300,8953	8,478247
308,61056	2,605791	308,61056	6,00964	308,61056	3,915401	308,61056	3,079991
316,32582	14,713419	316,32582	12,685937	316,32582	1,386231	316,32582	5,756027
324,04109	10,599147	324,04109	5,375761	324,04109	7,297547	324,04109	4,944284
331,75635	3,688228	331,75635	12,317295	331,75635	11,205886	331,75635	5,501692
339,47162	3,709368	339,47162	13,814302	339,47162	7,381739	339,47162	1,901913
347,18688	7,821447	347,18688	15,754672	347,18688	11,716313	347,18688	3,581932
354,90214	1,877227	354,90214	3,922051	354,90214	9,997734	354,90214	6,246693
362,61741	3,149392	362,61741	10,445592	362,61741	13,326353	362,61741	9,763216
370,33267	5,178989	370,33267	9,739656	370,33267	11,476264	370,33267	10,25447
378,04794	3,766318	378,04794	9,585449	378,04794	10,907027	378,04794	10,256168
385,7632	2,738272	385,7632	9,634761	385,7632	10,147083	385,7632	9,840097
393,47846	2,985753	393,47846	9,434417	393,47846	10,169461	393,47846	9,425782
401,19373	2,51456	401,19373	8,797574	401,19373	9,11304	401,19373	8,995085
408,90899	2,35335	408,90899	8,535696	408,90899	9,165738	408,90899	8,872157
416,62426	2,63947	416,62426	8,372084	416,62426	9,133464	416,62426	8,739161
424,33952	2,471265	424,33952	8,055423	424,33952	8,881761	424,33952	8,281464
432,05478	2,145723	432,05478	7,689463	432,05478	8,534723	432,05478	8,105487
439,77005	2,401441	439,77005	7,606738	439,77005	8,583517	439,77005	8,068407
447,48531	2,528583	447,48531	7,610398	447,48531	8,525405	447,48531	7,961242
455,20058	2,34476	455,20058	7,747631	455,20058	8,641582	455,20058	7,905077
462,91584	2,432449	462,91584	7,755653	462,91584	8,508992	462,91584	7,855943
470,6311	2,529529	470,6311	7,7171	470,6311	8,396198	470,6311	7,882401
478,34637	2,387729	478,34637	7,533787	478,34637	8,207691	478,34637	7,803846
486,06163	2,427399	486,06163	7,413058	486,06163	8,158427	486,06163	7,691136
493,7769	2,376151	493,7769	7,315434	493,7769	8,056593	493,7769	7,516522
501,49216	2,229186	501,49216	7,266123	501,49216	8,036535	501,49216	7,363875
509,20742	2,140741	509,20742	7,109703	509,20742	7,77215	509,20742	7,195292
516,92269	2,174278	516,92269	6,99468	516,92269	7,599227	516,92269	7,083567
524,63795	2,116362	524,63795	6,917329	524,63795	7,542625	524,63795	7,041597
532,35322	2,181041	532,35322	7,002736	532,35322	7,628474	532,35322	7,118205
540,06848	2,255025	540,06848	7,031791	540,06848	7,638156	540,06848	7,1492
547,78374	2,128136	547,78374	6,860908	547,78374	7,513671	547,78374	6,982144
555,49901	1,969312	555,49901	6,503057	555,49901	7,240547	555,49901	6,677613
563,21427	1,981269	563,21427	6,429105	563,21427	7,146498	563,21427	6,578718
570,92954	2,003598	570,92954	6,553341	570,92954	7,20441	570,92954	6,666668
578,6448	2,008542	578,6448	6,603678	578,6448	7,229506	578,6448	6,708461

586,36006	2,053288	586,36006	6,527514	586,36006	7,148275	586,36006	6,635635
594,07533	2,0516	594,07533	6,474044	594,07533	7,124253	594,07533	6,539233
601,79059	1,996291	601,79059	6,432676	601,79059	7,077097	601,79059	6,448301
609,50586	2,00995	609,50586	6,408596	609,50586	7,044987	609,50586	6,468024
617,22112	2,026801	617,22112	6,490636	617,22112	7,115492	617,22112	6,637517
624,93638	2,101492	624,93638	6,79517	624,93638	7,425832	624,93638	6,979065
632,65165	2,259118	632,65165	7,157563	632,65165	7,787869	632,65165	7,376836
640,36691	2,414104	640,36691	7,518046	640,36691	8,139471	640,36691	7,756719
648,08218	2,456286	648,08218	7,697283	648,08218	8,309907	648,08218	7,99355
655,79744	2,452953	655,79744	7,678007	655,79744	8,294954	655,79744	7,973001
663,5127	2,421429	663,5127	7,574701	663,5127	8,188298	663,5127	7,845221
671,22797	2,452057	671,22797	7,696005	671,22797	8,300191	671,22797	7,943795
678,94323	2,61379	678,94323	8,108226	678,94323	8,685067	678,94323	8,409338
686,6585	2,777145	686,6585	8,492865	686,6585	9,059608	686,6585	8,847421
694,37376	2,808755	694,37376	8,606372	694,37376	9,204437	694,37376	9,046615
702,08902	2,835514	702,08902	8,662246	702,08902	9,269736	702,08902	9,159793
709,80429	2,892668	709,80429	8,762044	709,80429	9,372919	709,80429	9,283237
717,51955	3,010668	717,51955	9,063622	717,51955	9,649275	717,51955	9,535968
725,23482	3,209039	725,23482	9,524797	725,23482	10,081918	725,23482	9,942771
732,95008	3,470634	732,95008	10,081104	732,95008	10,590454	732,95008	10,439985
740,66534	3,675533	740,66534	10,586069	740,66534	11,03442	740,66534	10,919232
748,38061	3,874135	748,38061	11,066389	748,38061	11,46092	748,38061	11,388757
756,09587	4,090406	756,09587	11,511386	756,09587	11,864558	756,09587	11,883007
763,81114	4,285988	763,81114	11,96432	763,81114	12,262172	763,81114	12,367635
771,5264	4,436834	771,5264	12,338307	771,5264	12,585819	771,5264	12,781009
779,24166	4,590774	779,24166	12,658517	779,24166	12,86127	779,24166	13,099226
786,95693	4,692407	786,95693	12,900582	786,95693	13,079534	786,95693	13,312583
794,67219	4,781325	794,67219	13,108424	794,67219	13,263475	794,67219	13,481114
802,38746	4,875808	802,38746	13,258568	802,38746	13,376201	802,38746	13,619975
810,10272	4,956276	810,10272	13,392338	810,10272	13,450308	810,10272	13,693309
817,81798	4,972704	817,81798	13,451267	817,81798	13,472702	817,81798	13,632897
825,53325	4,995983	825,53325	13,450326	825,53325	13,46157	825,53325	13,425035
833,24851	4,977771	833,24851	13,350582	833,24851	13,391211	833,24851	13,2464
840,96378	4,972798	840,96378	13,359569	840,96378	13,424469	840,96378	13,332121
848,67904	4,998919	848,67904	13,402623	848,67904	13,460367	848,67904	13,531196
856,3943	5,009459	856,3943	13,344544	856,3943	13,414373	856,3943	13,574108
864,10957	4,860087	864,10957	13,023611	864,10957	13,144404	864,10957	13,287426
871,82483	4,556214	871,82483	12,354257	871,82483	12,581502	871,82483	12,595516
879,5401	4,201477	879,5401	11,558148	879,5401	11,853355	879,5401	11,903475
887,25536	3,822184	887,25536	10,731792	887,25536	11,060388	887,25536	11,18367
894,97062	3,544726	894,97062	10,109841	894,97062	10,471808	894,97062	10,540865
902,68589	3,618359	902,68589	10,243197	902,68589	10,612507	902,68589	10,617462

910,40115	3,803928	910,40115	10,646521	910,40115	10,994874	910,40115	11,020747
918,11642	3,84784	918,11642	10,708089	918,11642	11,046148	918,11642	11,076922
925,83168	3,726534	925,83168	10,345271	925,83168	10,719064	925,83168	10,773444
933,54694	3,527899	933,54694	9,806808	933,54694	10,228961	933,54694	10,311337
941,26221	3,246046	941,26221	9,086902	941,26221	9,559776	941,26221	9,672125
948,97747	2,8934	948,97747	8,170899	948,97747	8,708485	948,97747	8,759503
956,69274	2,520183	956,69274	7,209528	956,69274	7,802115	956,69274	7,731962
964,408	2,206916	964,408	6,403684	964,408	7,027729	964,408	6,83609
972,12326	1,932899	972,12326	5,654235	972,12326	6,30282	972,12326	6,026547
979,83853	1,659016	979,83853	4,892618	979,83853	5,556996	979,83853	5,164515
987,55379	1,466566	987,55379	4,377206	987,55379	5,037332	987,55379	4,549269
995,26906	1,399746	995,26906	4,178941	995,26906	4,83855	995,26906	4,318961
1002,9843	1,34084	1002,9843	4,007315	1002,9843	4,65527	1002,9843	4,137914
1010,6996	1,26717	1010,6996	3,814217	1010,6996	4,436339	1010,6996	3,889565
1018,4148	1,190866	1018,4148	3,590442	1018,4148	4,192458	1018,4148	3,656762
1026,1301	1,141205	1026,1301	3,433209	1026,1301	4,007023	1026,1301	3,468396
1033,8454	1,11181	1033,8454	3,378977	1033,8454	3,930771	1033,8454	3,338878
1041,5606	1,12867	1041,5606	3,428223	1041,5606	3,96549	1041,5606	3,303346
1049,2759	1,115083	1049,2759	3,369665	1049,2759	3,896414	1049,2759	3,287001
1056,9912	1,081661	1056,9912	3,29385	1056,9912	3,799598	1056,9912	3,278378
1064,7064	1,094308	1064,7064	3,358728	1064,7064	3,85775	1064,7064	3,370688
1072,4217	1,182224	1072,4217	3,591879	1072,4217	4,10457	1072,4217	3,582847
1080,137	1,27278	1080,137	3,854189	1080,137	4,375342	1080,137	3,832414
1087,8522	1,354721	1087,8522	4,089845	1087,8522	4,595336	1087,8522	4,055802
1095,5675	1,378447	1095,5675	4,124325	1095,5675	4,628567	1095,5675	4,120009
1103,2828	1,335798	1103,2828	3,999964	1103,2828	4,490809	1103,2828	4,004085
1110,998	1,282684	1110,998	3,883224	1110,998	4,348565	1110,998	3,916875
1118,7133	1,319852	1118,7133	3,979342	1118,7133	4,433709	1118,7133	4,006576
1126,4285	1,417597	1126,4285	4,267493	1126,4285	4,724126	1126,4285	4,251344
1134,1438	1,603304	1134,1438	4,813351	1134,1438	5,272269	1134,1438	4,761338
1141,8591	1,755114	1141,8591	5,230113	1141,8591	5,691929	1141,8591	5,228632
1149,5743	1,748073	1149,5743	5,207805	1149,5743	5,658271	1149,5743	5,236349
1157,2896	1,679696	1157,2896	5,048967	1157,2896	5,475991	1157,2896	5,054502
1165,0049	1,725326	1165,0049	5,175463	1165,0049	5,581437	1165,0049	5,095758
1172,7201	1,921189	1172,7201	5,703586	1172,7201	6,100716	1172,7201	5,534638
1180,4354	2,232403	1180,4354	6,545261	1180,4354	6,928198	1180,4354	6,307089
1188,1507	2,525164	1188,1507	7,32428	1188,1507	7,69125	1188,1507	7,09191
1195,8659	2,659154	1195,8659	7,677297	1195,8659	8,035692	1195,8659	7,491328
1203,5812	2,733161	1203,5812	7,895701	1203,5812	8,242713	1203,5812	7,688424
1211,2964	2,959892	1211,2964	8,504577	1211,2964	8,789149	1211,2964	7,89817
1219,0117	3,144639	1219,0117	8,991292	1219,0117	9,21269	1219,0117	7,742594
1226,727	3,140568	1226,727	8,988883	1226,727	9,201198	1226,727	7,256959

1234,4422	3,089471	1234,4422	8,852526	1234,4422	9,080217	1234,4422	6,786708
1242,1575	3,139902	1242,1575	8,945636	1242,1575	9,164152	1242,1575	6,502659
1249,8728	3,23819	1249,8728	9,17055	1249,8728	9,365731	1249,8728	6,436091
1257,588	3,318961	1257,588	9,358011	1257,588	9,531795	1257,588	6,581388
1265,3033	3,35798	1265,3033	9,439659	1265,3033	9,616082	1265,3033	6,929485
1273,0186	3,367309	1273,0186	9,453965	1273,0186	9,649089	1273,0186	7,41918
1280,7338	3,35055	1280,7338	9,420033	1280,7338	9,644687	1280,7338	7,951455
1288,4491	3,3972	1288,4491	9,534941	1288,4491	9,754075	1288,4491	8,512492
1296,1644	3,371188	1296,1644	9,472075	1296,1644	9,672887	1296,1644	8,846835
1303,8796	3,142383	1303,8796	8,905057	1303,8796	9,123457	1303,8796	8,62799
1311,5949	2,815919	1311,5949	8,078644	1311,5949	8,357254	1311,5949	8,037233
1319,3101	2,612366	1319,3101	7,565215	1319,3101	7,885593	1319,3101	7,57682
1327,0254	2,586076	1327,0254	7,517642	1327,0254	7,843842	1327,0254	7,504633
1334,7407	2,613141	1334,7407	7,592744	1334,7407	7,915826	1334,7407	7,596592
1342,4559	2,686233	1342,4559	7,788566	1342,4559	8,108046	1342,4559	7,848621
1350,1712	2,745989	1350,1712	7,945092	1350,1712	8,25258	1350,1712	8,003499
1357,8865	2,680064	1357,8865	7,770688	1357,8865	8,087737	1357,8865	7,717441
1365,6017	2,550588	1365,6017	7,413911	1365,6017	7,752983	1365,6017	7,140109
1373,317	2,485975	1373,317	7,235616	1373,317	7,582193	1373,317	6,781698
1381,0323	2,608721	1381,0323	7,527155	1381,0323	7,834471	1381,0323	6,91554
1388,7475	2,875438	1388,7475	8,21071	1388,7475	8,488378	1388,7475	7,657061
1396,4628	3,050159	1396,4628	8,684303	1396,4628	8,969113	1396,4628	8,374161
1404,178	3,025164	1404,178	8,635011	1404,178	8,94845	1404,178	8,575606
1411,8933	2,899352	1411,8933	8,299116	1411,8933	8,642466	1411,8933	8,372183
1419,6086	2,595648	1419,6086	7,501459	1419,6086	7,895442	1419,6086	7,604694
1427,3238	2,395725	1427,3238	6,967386	1427,3238	7,416722	1427,3238	7,007332
1435,0391	2,457461	1435,0391	7,080625	1435,0391	7,563268	1435,0391	7,012623
1442,7544	2,608435	1442,7544	7,418713	1442,7544	7,899908	1442,7544	7,206295
1450,4696	2,698818	1450,4696	7,636261	1450,4696	8,08517	1450,4696	7,330889
1458,1849	2,722175	1458,1849	7,721123	1458,1849	8,118801	1458,1849	7,299888
1465,9002	2,935484	1465,9002	8,276681	1465,9002	8,624137	1465,9002	7,81974
1473,6154	3,478017	1473,6154	9,594779	1473,6154	9,855218	1473,6154	9,240366
1481,3307	4,160588	1481,3307	11,166788	1481,3307	11,309724	1481,3307	10,942313
1489,046	4,656964	1489,046	12,300531	1489,046	12,279745	1489,046	11,989127
1496,7612	4,760485	1496,7612	12,611931	1496,7612	12,472487	1496,7612	12,153734
1504,4765	4,828178	1504,4765	12,769734	1504,4765	12,547666	1504,4765	12,063196
1512,1917	5,259717	1512,1917	13,495867	1512,1917	13,185643	1512,1917	12,386063
1519,907	5,956268	1519,907	14,706437	1519,907	14,33481	1519,907	13,626626
1527,6223	6,523022	1527,6223	15,630694	1527,6223	15,281527	1527,6223	15,03311
1535,3375	6,880597	1535,3375	16,211765	1535,3375	15,873613	1535,3375	15,925993
1543,0528	6,78421	1543,0528	15,887926	1543,0528	15,663848	1543,0528	15,869918
1550,7681	6,856996	1550,7681	15,965031	1550,7681	15,805744	1550,7681	16,127269

1558,4833	6,614264	1558,4833	15,452159	1558,4833	15,290601	1558,4833	15,75314
1566,1986	6,282509	1566,1986	14,874112	1566,1986	14,637765	1566,1986	15,202873
1573,9139	5,7624	1573,9139	13,97821	1573,9139	13,638709	1573,9139	14,271061
1581,6291	5,005454	1581,6291	12,589036	1581,6291	12,204742	1581,6291	12,685334
1589,3444	4,343921	1589,3444	11,286902	1589,3444	10,950409	1589,3444	11,250401
1597,0596	3,99903	1597,0596	10,523696	1597,0596	10,244815	1597,0596	10,312076
1604,7749	3,955342	1604,7749	10,357631	1604,7749	10,095236	1604,7749	10,082597
1612,4902	3,988546	1612,4902	10,402151	1612,4902	10,131256	1612,4902	10,208941
1620,2054	3,845659	1620,2054	10,105596	1620,2054	9,842513	1620,2054	9,962634
1627,9207	3,778513	1627,9207	9,967967	1627,9207	9,695765	1627,9207	9,713535
1635,636	3,709629	1635,636	9,850761	1635,636	9,580506	1635,636	9,593415
1643,3512	3,791515	1643,3512	10,081642	1643,3512	9,785982	1643,3512	9,821025
1651,0665	3,854101	1651,0665	10,27177	1651,0665	9,950327	1651,0665	10,01544
1658,7818	4,144086	1658,7818	10,930845	1658,7818	10,536305	1658,7818	10,544195
1666,497	4,570132	1666,497	11,881155	1666,497	11,341809	1666,497	11,366672
1674,2123	5,147873	1674,2123	13,082028	1674,2123	12,325469	1674,2123	12,197509
1681,9276	5,744066	1681,9276	14,252021	1681,9276	13,246166	1681,9276	12,838147
1689,6428	6,42058	1689,6428	15,522976	1689,6428	14,2453	1689,6428	13,249268
1697,3581	7,016917	1697,3581	16,592847	1697,3581	15,051638	1697,3581	13,154944
1705,0733	7,568901	1705,0733	17,511614	1705,0733	15,736981	1705,0733	12,270414
1712,7886	8,102949	1712,7886	18,446079	1712,7886	16,44617	1712,7886	11,466559
1720,5039	8,525332	1720,5039	19,130011	1720,5039	16,93745	1720,5039	10,173806
1728,2191	9,015561	1728,2191	19,964532	1728,2191	17,600169	1728,2191	9,624154
1735,9344	9,312482	1735,9344	20,387388	1735,9344	17,965792	1735,9344	9,289663
1743,6497	9,592388	1743,6497	20,783074	1743,6497	18,397483	1743,6497	9,795098
1751,3649	9,828999	1751,3649	21,106745	1751,3649	18,801854	1751,3649	11,133974
1759,0802	10,103246	1759,0802	21,535014	1759,0802	19,267144	1759,0802	13,024317
1766,7955	10,351119	1766,7955	21,918611	1766,7955	19,628654	1766,7955	15,021821
1774,5107	10,430654	1774,5107	21,985286	1774,5107	19,687713	1774,5107	16,571542
1782,226	10,633806	1782,226	22,279351	1782,226	19,953032	1782,226	17,646878
1789,9412	10,788256	1789,9412	22,511399	1789,9412	20,139589	1789,9412	18,236317
1797,6565	10,792308	1797,6565	22,472563	1797,6565	20,08522	1797,6565	18,469329
1805,3718	10,886266	1805,3718	22,608721	1805,3718	20,179724	1805,3718	18,752552
1813,087	10,995044	1813,087	22,777037	1813,087	20,300577	1813,087	19,056724
1820,8023	11,114116	1820,8023	22,978745	1820,8023	20,44391	1820,8023	19,346811
1828,5176	11,092197	1828,5176	22,926557	1828,5176	20,359969	1828,5176	19,396818
1836,2328	11,138408	1836,2328	23,002693	1836,2328	20,398004	1836,2328	19,523069
1843,9481	11,151721	1843,9481	23,010157	1843,9481	20,369327	1843,9481	19,581495
1851,6634	11,139939	1851,6634	22,978031	1851,6634	20,316417	1851,6634	19,569806
1859,3786	11,262083	1859,3786	23,193025	1859,3786	20,475975	1859,3786	19,811035
1867,0939	11,201457	1867,0939	23,091805	1867,0939	20,354783	1867,0939	19,731293
1874,8092	11,12139	1874,8092	22,958722	1874,8092	20,22784	1874,8092	19,635738

1882,5244	11,154133	1882,5244	23,032238	1882,5244	20,276931	1882,5244	19,727029
1890,2397	11,083368	1890,2397	22,919676	1890,2397	20,161512	1890,2397	19,65068
1897,9549	11,009208	1897,9549	22,804146	1897,9549	20,050604	1897,9549	19,558278
1905,6702	10,971212	1905,6702	22,761904	1905,6702	20,004484	1905,6702	19,557238
1913,3855	10,879997	1913,3855	22,638917	1913,3855	19,888649	1913,3855	19,478882
1921,1007	10,714682	1921,1007	22,380397	1921,1007	19,664491	1921,1007	19,294394
1928,816	10,583213	1928,816	22,187572	1928,816	19,50773	1928,816	19,17703
1936,5313	10,482943	1936,5313	22,057806	1936,5313	19,40303	1936,5313	19,139943
1944,2465	10,292121	1944,2465	21,766947	1944,2465	19,157885	1944,2465	18,936658
1951,9618	10,154094	1951,9618	21,559154	1951,9618	18,986345	1951,9618	18,818627
1959,6771	10,067345	1959,6771	21,431942	1959,6771	18,875313	1959,6771	18,759754
1967,3923	9,959136	1967,3923	21,25298	1967,3923	18,721305	1967,3923	18,653565
1975,1076	9,86546	1975,1076	21,099073	1975,1076	18,593667	1975,1076	18,558858
1982,8228	9,785499	1982,8228	20,976024	1982,8228	18,487858	1982,8228	18,512692
1990,5381	9,644191	1990,5381	20,746575	1990,5381	18,289927	1990,5381	18,362978
1998,2534	9,493915	1998,2534	20,502542	1998,2534	18,087944	1998,2534	18,203891
2005,9686	9,373013	2005,9686	20,315056	2005,9686	17,93062	2005,9686	18,08445
2013,6839	9,211239	2013,6839	20,05764	2013,6839	17,71352	2013,6839	17,914076
2021,3992	9,017689	2021,3992	19,748523	2021,3992	17,457513	2021,3992	17,69787
2029,1144	8,846719	2029,1144	19,47963	2029,1144	17,238097	2029,1144	17,530162
2036,8297	8,705322	2036,8297	19,258973	2036,8297	17,051374	2036,8297	17,383288
2044,545	8,591848	2044,545	19,072006	2044,545	16,888089	2044,545	17,253311
2052,2602	8,522468	2052,2602	18,955992	2052,2602	16,779232	2052,2602	17,165117
2059,9755	8,46693	2059,9755	18,861048	2059,9755	16,684301	2059,9755	17,092455
2067,6908	8,416868	2067,6908	18,771263	2067,6908	16,59392	2067,6908	17,00951
2075,406	8,374248	2075,406	18,696495	2075,406	16,51877	2075,406	16,944861
2083,1213	8,32053	2083,1213	18,611779	2083,1213	16,434273	2083,1213	16,870001
2090,8365	8,23825	2090,8365	18,476458	2090,8365	16,31089	2090,8365	16,769078
2098,5518	8,150275	2098,5518	18,334917	2098,5518	16,18435	2098,5518	16,663396
2106,2671	8,058457	2106,2671	18,190581	2106,2671	16,056291	2106,2671	16,559636
2113,9823	7,975571	2113,9823	18,061861	2113,9823	15,94244	2113,9823	16,461157
2121,6976	7,902786	2121,6976	17,946048	2121,6976	15,840558	2121,6976	16,377967
2129,4129	7,8552	2129,4129	17,875724	2129,4129	15,769734	2129,4129	16,323392
2137,1281	7,832934	2137,1281	17,846726	2137,1281	15,727808	2137,1281	16,292958
2144,8434	7,849841	2144,8434	17,879972	2144,8434	15,739014	2144,8434	16,297303
2152,5587	7,885977	2152,5587	17,936649	2152,5587	15,767609	2152,5587	16,323386
2160,2739	7,948628	2160,2739	18,035209	2160,2739	15,826808	2160,2739	16,377719
2167,9892	8,030186	2167,9892	18,161402	2167,9892	15,9073	2167,9892	16,454624
2175,7044	8,129924	2175,7044	18,317106	2175,7044	16,012064	2175,7044	16,551525
2183,4197	8,219754	2183,4197	18,451782	2183,4197	16,099412	2183,4197	16,639283
2191,135	8,291136	2191,135	18,550889	2191,135	16,158951	2191,135	16,70309
2198,8502	8,328413	2198,8502	18,601013	2198,8502	16,180264	2198,8502	16,739561

2206,5655	8,334579	2206,5655	18,603027	2206,5655	16,169319	2206,5655	16,742273
2214,2808	8,315087	2214,2808	18,566607	2214,2808	16,131306	2214,2808	16,726466
2221,996	8,279166	2221,996	18,499286	2221,996	16,067685	2221,996	16,682077
2229,7113	8,251088	2229,7113	18,451119	2229,7113	16,017584	2229,7113	16,650327
2237,4266	8,238125	2237,4266	18,419307	2237,4266	15,977859	2237,4266	16,611327
2245,1418	8,255495	2245,1418	18,434037	2245,1418	15,976392	2245,1418	16,607408
2252,8571	8,281897	2252,8571	18,458484	2252,8571	15,97716	2252,8571	16,598634
2260,5724	8,327771	2260,5724	18,512376	2260,5724	16,002484	2260,5724	16,615653
2268,2876	8,363381	2268,2876	18,542873	2268,2876	16,0045	2268,2876	16,599857
2276,0029	8,394098	2276,0029	18,571122	2276,0029	16,011151	2276,0029	16,599519
2283,7181	8,427441	2283,7181	18,615662	2283,7181	16,028821	2283,7181	16,630781
2291,4334	8,460858	2291,4334	18,661389	2291,4334	16,054263	2291,4334	16,678433
2299,1487	8,502074	2299,1487	18,729942	2299,1487	16,099537	2299,1487	16,746883
2306,8639	8,548002	2306,8639	18,807418	2306,8639	16,154809	2306,8639	16,836543
2314,5792	8,586756	2314,5792	18,876952	2314,5792	16,207322	2314,5792	16,921537
2322,2945	8,53299	2322,2945	18,768019	2322,2945	16,11738	2322,2945	16,849697
2330,0097	8,376834	2330,0097	18,478754	2330,0097	15,882025	2330,0097	16,591546
2337,725	8,099339	2337,725	17,958792	2337,725	15,453046	2337,725	16,111394
2345,4403	8,10526	2345,4403	18,001974	2345,4403	15,487478	2345,4403	16,187142
2353,1555	8,363367	2353,1555	18,530911	2353,1555	15,903731	2353,1555	16,768953
2360,8708	7,864343	2360,8708	17,572827	2360,8708	15,107809	2360,8708	15,851527
2368,586	7,248863	2368,586	16,413355	2368,586	14,148769	2368,586	14,718949
2376,3013	7,251246	2376,3013	16,455824	2376,3013	14,165035	2376,3013	14,791472
2384,0166	7,43122	2384,0166	16,850145	2384,0166	14,469282	2384,0166	15,228984
2391,7318	7,506802	2391,7318	17,028546	2391,7318	14,599373	2391,7318	15,4488
2399,4471	7,466219	2399,4471	16,978458	2399,4471	14,554521	2399,4471	15,443533
2407,1624	7,368664	2407,1624	16,81418	2407,1624	14,417312	2407,1624	15,320476
2414,8776	7,27801	2414,8776	16,667314	2414,8776	14,299406	2414,8776	15,226339
2422,5929	7,165927	2422,5929	16,480574	2422,5929	14,144088	2422,5929	15,101686
2430,3082	7,062067	2430,3082	16,303034	2430,3082	14,001432	2430,3082	14,998545
2438,0234	6,96148	2438,0234	16,139104	2438,0234	13,863146	2438,0234	14,89912
2445,7387	6,863255	2445,7387	15,971666	2445,7387	13,723352	2445,7387	14,790169
2453,454	6,786053	2453,454	15,839966	2453,454	13,611539	2453,454	14,703748
2461,1692	6,705926	2461,1692	15,69091	2461,1692	13,485615	2461,1692	14,594787
2468,8845	6,637486	2468,8845	15,571412	2468,8845	13,384117	2468,8845	14,515443
2476,5997	6,548224	2476,5997	15,411568	2476,5997	13,24857	2476,5997	14,407816
2484,315	6,459536	2484,315	15,252463	2484,315	13,118688	2484,315	14,305855
2492,0303	6,357394	2492,0303	15,075623	2492,0303	12,972749	2492,0303	14,190957
2499,7455	6,245416	2499,7455	14,870199	2499,7455	12,805514	2499,7455	14,051384
2507,4608	6,14618	2507,4608	14,692885	2507,4608	12,664514	2507,4608	13,943398
2515,1761	6,060114	2515,1761	14,534431	2515,1761	12,531471	2515,1761	13,833885
2522,8913	6,011988	2522,8913	14,449699	2522,8913	12,453941	2522,8913	13,783105

2530,6066	5,955679	2530,6066	14,344781	2530,6066	12,355665	2530,6066	13,706703
2538,3219	5,908413	2538,3219	14,25653	2538,3219	12,277013	2538,3219	13,646592
2546,0371	5,872037	2546,0371	14,191089	2546,0371	12,209441	2546,0371	13,589783
2553,7524	5,839902	2553,7524	14,125748	2553,7524	12,145	2553,7524	13,530555
2561,4676	5,810677	2561,4676	14,073056	2561,4676	12,090165	2561,4676	13,482611
2569,1829	5,770294	2569,1829	13,993996	2569,1829	12,01338	2569,1829	13,406728
2576,8982	5,736081	2576,8982	13,925707	2576,8982	11,950363	2576,8982	13,345739
2584,6134	5,684307	2584,6134	13,821698	2584,6134	11,859663	2584,6134	13,260907
2592,3287	5,620161	2592,3287	13,697321	2592,3287	11,75449	2592,3287	13,161655
2600,044	5,542899	2600,044	13,558575	2600,044	11,639393	2600,044	13,058405
2607,7592	5,457556	2607,7592	13,396202	2607,7592	11,504873	2607,7592	12,934853
2615,4745	5,378279	2615,4745	13,250258	2615,4745	11,383938	2615,4745	12,832862
2623,1898	5,285129	2623,1898	13,074917	2623,1898	11,237361	2623,1898	12,702412
2630,905	5,194041	2630,905	12,905408	2630,905	11,100001	2630,905	12,584523
2638,6203	5,100811	2638,6203	12,735332	2638,6203	10,95827	2638,6203	12,461916
2646,3356	5,011729	2646,3356	12,569443	2646,3356	10,82317	2646,3356	12,346539
2654,0508	4,937347	2654,0508	12,427487	2654,0508	10,704376	2654,0508	12,251773
2661,7661	4,866258	2661,7661	12,287269	2661,7661	10,587075	2661,7661	12,152207
2669,4813	4,796893	2669,4813	12,154592	2669,4813	10,475603	2669,4813	12,052905
2677,1966	4,711669	2677,1966	11,985512	2677,1966	10,338033	2677,1966	11,927548
2684,9119	4,618508	2684,9119	11,800052	2684,9119	10,190443	2684,9119	11,795104
2692,6271	4,521505	2692,6271	11,610789	2692,6271	10,039082	2692,6271	11,663108
2700,3424	4,421135	2700,3424	11,408981	2700,3424	9,877165	2700,3424	11,514036
2708,0577	4,327978	2708,0577	11,223827	2708,0577	9,729002	2708,0577	11,37836
2715,7729	4,245165	2715,7729	11,052617	2715,7729	9,587748	2715,7729	11,243594
2723,4882	4,181536	2723,4882	10,914311	2723,4882	9,472707	2723,4882	11,132936
2731,2035	4,13049	2731,2035	10,803532	2731,2035	9,375308	2731,2035	11,039832
2738,9187	4,090921	2738,9187	10,715342	2738,9187	9,298436	2738,9187	10,969765
2746,634	4,061911	2746,634	10,649258	2746,634	9,23588	2746,634	10,912256
2754,3492	4,024294	2754,3492	10,568525	2754,3492	9,162	2754,3492	10,840821
2762,0645	3,97485	2762,0645	10,460714	2762,0645	9,067966	2762,0645	10,749046
2769,7798	3,917874	2769,7798	10,33366	2769,7798	8,96164	2769,7798	10,641374
2777,495	3,857043	2777,495	10,197187	2777,495	8,84587	2777,495	10,520633
2785,2103	3,784658	2785,2103	10,038917	2785,2103	8,712162	2785,2103	10,384109
2792,9256	3,693558	2792,9256	9,840647	2792,9256	8,547772	2792,9256	10,211875
2800,6408	3,580018	2800,6408	9,592666	2800,6408	8,349076	2800,6408	9,997276
2808,3561	3,446666	2808,3561	9,295207	2808,3561	8,112837	2808,3561	9,740169
2816,0714	3,299881	2816,0714	8,960526	2816,0714	7,8509	2816,0714	9,447291
2823,7866	3,146058	2823,7866	8,602347	2823,7866	7,565486	2823,7866	9,113894
2831,5019	2,97964	2831,5019	8,215054	2831,5019	7,256548	2831,5019	8,72855
2839,2172	2,798124	2839,2172	7,786228	2839,2172	6,914887	2839,2172	8,264954
2846,9324	2,616965	2846,9324	7,348423	2846,9324	6,566698	2846,9324	7,751921

2854,6477	2,475943	2854,6477	7,007661	2854,6477	6,283132	2854,6477	7,351016
2862,3629	2,386614	2862,3629	6,783437	2862,3629	6,092871	2862,3629	7,150787
2870,0782	2,312447	2870,0782	6,592652	2870,0782	5,935114	2870,0782	6,988748
2877,7935	2,245866	2877,7935	6,419638	2877,7935	5,794309	2877,7935	6,825221
2885,5087	2,185254	2885,5087	6,256823	2885,5087	5,665311	2885,5087	6,664215
2893,224	2,129486	2893,224	6,10497	2893,224	5,54576	2893,224	6,492691
2900,9393	2,101649	2900,9393	6,030105	2900,9393	5,482789	2900,9393	6,37242
2908,6545	2,109176	2908,6545	6,059148	2908,6545	5,498973	2908,6545	6,310567
2916,3698	2,135391	2916,3698	6,138234	2916,3698	5,541771	2916,3698	6,22326
2924,0851	2,18631	2924,0851	6,27943	2924,0851	5,632064	2924,0851	6,222196
2931,8003	2,252594	2931,8003	6,444053	2931,8003	5,745569	2931,8003	6,384744
2939,5156	2,326559	2939,5156	6,614561	2939,5156	5,883435	2939,5156	6,636151
2947,2308	2,443317	2947,2308	6,892904	2947,2308	6,103102	2947,2308	6,940723
2954,9461	2,576435	2954,9461	7,217755	2954,9461	6,341666	2954,9461	7,220708
2962,6614	2,68608	2962,6614	7,481948	2962,6614	6,533034	2962,6614	7,501828
2970,3766	2,81872	2970,3766	7,795375	2970,3766	6,764889	2970,3766	7,872046
2978,0919	2,987066	2978,0919	8,177427	2978,0919	7,044776	2978,0919	8,262504
2985,8072	3,109633	2985,8072	8,442612	2985,8072	7,235083	2985,8072	8,528458
2993,5224	3,152541	2993,5224	8,522864	2993,5224	7,283128	2993,5224	8,627856
3001,2377	3,153524	3001,2377	8,513193	3001,2377	7,268377	3001,2377	8,656938
3008,953	3,122131	3008,953	8,427794	3008,953	7,196664	3008,953	8,614189
3016,6682	3,074152	3016,6682	8,300418	3016,6682	7,099278	3016,6682	8,538502
3024,3835	3,020913	3024,3835	8,172347	3024,3835	6,996081	3024,3835	8,465549
3032,0988	2,941385	3032,0988	7,986577	3032,0988	6,844651	3032,0988	8,331134
3039,814	2,865568	3039,814	7,801454	3039,814	6,699935	3039,814	8,195635
3047,5293	2,781825	3047,5293	7,604758	3047,5293	6,544761	3047,5293	8,038043
3055,2445	2,691419	3055,2445	7,388642	3055,2445	6,370899	3055,2445	7,848635
3062,9598	2,60606	3062,9598	7,179961	3062,9598	6,205726	3062,9598	7,66502
3070,6751	2,515983	3070,6751	6,956709	3070,6751	6,03	3070,6751	7,4585
3078,3903	2,435782	3078,3903	6,750942	3078,3903	5,875069	3078,3903	7,271473
3086,1056	2,352261	3086,1056	6,543991	3086,1056	5,709861	3086,1056	7,076733
3093,8209	2,267558	3093,8209	6,33217	3093,8209	5,540695	3093,8209	6,873648
3101,5361	2,188335	3101,5361	6,133067	3101,5361	5,379212	3101,5361	6,67428
3109,2514	2,108055	3109,2514	5,927057	3109,2514	5,211945	3109,2514	6,464086
3116,9667	2,035236	3116,9667	5,728582	3116,9667	5,05761	3116,9667	6,266165
3124,6819	1,959188	3124,6819	5,531617	3124,6819	4,904069	3124,6819	6,067291
3132,3972	1,882119	3132,3972	5,335179	3132,3972	4,744215	3132,3972	5,862093
3140,1124	1,816395	3140,1124	5,163097	3140,1124	4,604975	3140,1124	5,682869
3147,8277	1,747035	3147,8277	4,977841	3147,8277	4,454656	3147,8277	5,481106
3155,543	1,684285	3155,543	4,802847	3155,543	4,318992	3155,543	5,294239
3163,2582	1,625018	3163,2582	4,640835	3163,2582	4,184352	3163,2582	5,114448
3170,9735	1,564145	3170,9735	4,472593	3170,9735	4,046646	3170,9735	4,92805

3178,6888	1,509318	3178,6888	4,320089	3178,6888	3,922054	3178,6888	4,759495
3186,404	1,453029	3186,404	4,16497	3186,404	3,793355	3186,404	4,584821
3194,1193	1,4004	3194,1193	4,020453	3194,1193	3,67659	3194,1193	4,42373
3201,8346	1,351365	3201,8346	3,888906	3201,8346	3,569551	3201,8346	4,277727
3209,5498	1,304461	3209,5498	3,754603	3209,5498	3,452907	3209,5498	4,122702
3217,2651	1,266023	3217,2651	3,63885	3217,2651	3,353956	3217,2651	3,987806
3224,9804	1,225504	3224,9804	3,525912	3224,9804	3,25394	3224,9804	3,851148
3232,6956	1,187121	3232,6956	3,420256	3232,6956	3,163898	3232,6956	3,727105
3240,4109	1,154416	3240,4109	3,324325	3240,4109	3,082253	3240,4109	3,618513
3248,1261	1,118492	3248,1261	3,222081	3248,1261	2,996112	3248,1261	3,500927
3255,8414	1,087209	3255,8414	3,136403	3255,8414	2,921808	3255,8414	3,399333
3263,5567	1,058464	3263,5567	3,057345	3263,5567	2,848183	3263,5567	3,305302
3271,2719	1,034617	3271,2719	2,984658	3271,2719	2,780454	3271,2719	3,219843
3278,9872	1,017903	3278,9872	2,931312	3278,9872	2,736307	3278,9872	3,15758
3286,7025	0,999245	3286,7025	2,880687	3286,7025	2,689285	3286,7025	3,093081
3294,4177	0,986847	3294,4177	2,840125	3294,4177	2,6527	3294,4177	3,046289
3302,133	0,974351	3302,133	2,80453	3302,133	2,615526	3302,133	3,00452
3309,8483	0,956844	3309,8483	2,762009	3309,8483	2,576715	3309,8483	2,953452
3317,5635	0,940907	3317,5635	2,719624	3317,5635	2,540923	3317,5635	2,9083
3325,2788	0,922374	3325,2788	2,665301	3325,2788	2,491155	3325,2788	2,85025
3332,994	0,906141	3332,994	2,612251	3332,994	2,441515	3332,994	2,792916
3340,7093	0,893018	3340,7093	2,571471	3340,7093	2,404045	3340,7093	2,749707
3348,4246	0,879451	3348,4246	2,534779	3348,4246	2,371674	3348,4246	2,71107
3356,1398	0,872999	3356,1398	2,516978	3356,1398	2,35652	3356,1398	2,691922
3363,8551	0,867223	3363,8551	2,495814	3363,8551	2,334289	3363,8551	2,662572
3371,5704	0,863436	3371,5704	2,47663	3371,5704	2,317269	3371,5704	2,642528
3379,2856	0,858385	3379,2856	2,46227	3379,2856	2,300793	3379,2856	2,630704
3387,0009	0,85228	3387,0009	2,443117	3387,0009	2,279547	3387,0009	2,612267
3394,7162	0,850547	3394,7162	2,431503	3394,7162	2,266258	3394,7162	2,599234
3402,4314	0,847063	3402,4314	2,420415	3402,4314	2,254606	3402,4314	2,587399
3410,1467	0,843106	3410,1467	2,410259	3410,1467	2,243895	3410,1467	2,579178
3417,862	0,844417	3417,862	2,413642	3417,862	2,245692	3417,862	2,58598
3425,5772	0,846131	3425,5772	2,413846	3425,5772	2,242792	3425,5772	2,584899
3433,2925	0,857052	3433,2925	2,435132	3433,2925	2,262176	3433,2925	2,60978
3441,0077	0,861989	3441,0077	2,452201	3441,0077	2,272055	3441,0077	2,629436
3448,723	0,865095	3448,723	2,46601	3448,723	2,281309	3448,723	2,643816
3456,4383	0,879903	3456,4383	2,505324	3456,4383	2,314024	3456,4383	2,686776
3464,1535	0,895937	3464,1535	2,546559	3464,1535	2,345857	3464,1535	2,734401
3471,8688	0,913731	3471,8688	2,593804	3471,8688	2,381576	3471,8688	2,789131
3479,5841	0,935391	3479,5841	2,650761	3479,5841	2,428729	3479,5841	2,855092
3487,2993	0,956578	3487,2993	2,702054	3487,2993	2,471104	3487,2993	2,911446
3495,0146	0,989192	3495,0146	2,784209	3495,0146	2,535462	3495,0146	3,003222

3502,7299	1,01245	3502,7299	2,845118	3502,7299	2,580344	3502,7299	3,068219
3510,4451	1,04213	3510,4451	2,921306	3510,4451	2,643746	3510,4451	3,150635
3518,1604	1,080989	3518,1604	3,025118	3518,1604	2,721394	3518,1604	3,26241
3525,8756	1,108084	3525,8756	3,100401	3525,8756	2,778789	3525,8756	3,335689
3533,5909	1,147984	3533,5909	3,200601	3533,5909	2,860971	3533,5909	3,44108
3541,3062	1,202718	3541,3062	3,333432	3541,3062	2,963643	3541,3062	3,578154
3549,0214	1,243557	3549,0214	3,431714	3549,0214	3,041192	3549,0214	3,669354
3556,7367	1,317951	3556,7367	3,618054	3556,7367	3,18414	3556,7367	3,861802
3564,452	1,362388	3564,452	3,728711	3564,452	3,264736	3564,452	3,960721
3572,1672	1,422698	3572,1672	3,882166	3572,1672	3,394685	3572,1672	4,106155
3579,8825	1,530455	3579,8825	4,147327	3579,8825	3,592938	3579,8825	4,377248
3587,5978	1,6057	3587,5978	4,332436	3587,5978	3,730513	3587,5978	4,545138
3595,313	1,696861	3595,313	4,552902	3595,313	3,906975	3595,313	4,748337
3603,0283	1,841214	3603,0283	4,886099	3603,0283	4,15888	3603,0283	5,070314
3610,7436	1,965383	3610,7436	5,169511	3610,7436	4,366929	3610,7436	5,324488
3618,4588	2,117283	3618,4588	5,510083	3618,4588	4,627336	3618,4588	5,628447
3626,1741	2,266818	3626,1741	5,835123	3626,1741	4,866525	3626,1741	5,897386
3633,8893	2,485636	3633,8893	6,309198	3633,8893	5,232149	3633,8893	6,311343
3641,6046	2,794145	3641,6046	6,972502	3641,6046	5,709053	3641,6046	6,936682
3649,3199	2,98176	3649,3199	7,315582	3649,3199	5,947955	3649,3199	7,151455
3657,0351	3,30065	3657,0351	7,920797	3657,0351	6,41248	3657,0351	7,64578
3664,7504	3,747745	3664,7504	8,783168	3664,7504	7,014785	3664,7504	8,437644
3672,4657	3,95234	3672,4657	9,085855	3672,4657	7,20581	3672,4657	8,600602
3680,1809	4,219317	3680,1809	9,506798	3680,1809	7,515482	3680,1809	8,898454
3687,8962	4,459143	3687,8962	9,891223	3687,8962	7,770751	3687,8962	9,195179
3695,6115	4,654715	3695,6115	10,192938	3695,6115	7,983604	3695,6115	9,410093
3703,3267	4,888848	3703,3267	10,600734	3703,3267	8,248402	3703,3267	9,75694
3711,042	4,938406	3711,042	10,651487	3711,042	8,257345	3711,042	9,729243
3718,7572	5,085117	3718,7572	10,902894	3718,7572	8,429809	3718,7572	9,927116
3726,4725	5,241299	3726,4725	11,179328	3726,4725	8,602497	3726,4725	10,160508
3734,1878	5,244894	3734,1878	11,169949	3734,1878	8,570772	3734,1878	10,11221
3741,903	5,211085	3741,903	11,094699	3741,903	8,495378	3741,903	10,003975
3749,6183	5,031712	3749,6183	10,735413	3749,6183	8,227909	3749,6183	9,625375
3757,3336	5,061097	3757,3336	10,772975	3757,3336	8,254883	3757,3336	9,648778
3765,0488	5,169341	3765,0488	10,964384	3765,0488	8,370787	3765,0488	9,835074
3772,7641	5,187092	3772,7641	10,988061	3772,7641	8,374005	3772,7641	9,846085
3780,4794	5,210141	3780,4794	11,027425	3780,4794	8,388469	3780,4794	9,879701
3788,1946	5,292347	3788,1946	11,18387	3788,1946	8,487465	3788,1946	10,02606
3795,9099	5,362063	3795,9099	11,307165	3795,9099	8,545997	3795,9099	10,149084
3803,6252	5,178146	3803,6252	10,956922	3803,6252	8,289209	3803,6252	9,792321
3811,3404	5,273602	3811,3404	11,146138	3811,3404	8,42027	3811,3404	9,991289
3819,0557	5,18468	3819,0557	10,97737	3819,0557	8,279727	3819,0557	9,824003

3826,7709	5,21574	3826,7709	11,030725	3826,7709	8,315804	3826,7709	9,878847
3834,4862	5,192535	3834,4862	10,989873	3834,4862	8,260428	3834,4862	9,846519
3842,2015	5,131178	3842,2015	10,897845	3842,2015	8,197156	3842,2015	9,765485
3849,9167	5,14541	3849,9167	10,934676	3849,9167	8,198857	3849,9167	9,815333
3857,632	5,024049	3857,632	10,71029	3857,632	8,044881	3857,632	9,609112
3865,3473	5,019295	3865,3473	10,709512	3865,3473	8,036786	3865,3473	9,628599
3873,0625	4,945207	3873,0625	10,579831	3873,0625	7,940038	3873,0625	9,514634
3880,7778	4,94741	3880,7778	10,59238	3880,7778	7,938201	3880,7778	9,536505
3888,4931	4,929099	3888,4931	10,565601	3888,4931	7,914449	3888,4931	9,523274
3896,2083	4,931045	3896,2083	10,573131	3896,2083	7,896943	3896,2083	9,544614
3903,9236	4,752983	3903,9236	10,245148	3903,9236	7,663492	3903,9236	9,228123
3911,6388	4,814777	3911,6388	10,376875	3911,6388	7,76039	3911,6388	9,375086
3919,3541	4,808089	3919,3541	10,373971	3919,3541	7,740765	3919,3541	9,389141
3927,0694	4,74364	3927,0694	10,254617	3927,0694	7,652771	3927,0694	9,284452
3934,7846	4,716707	3934,7846	10,212876	3934,7846	7,619794	3934,7846	9,260446
3942,4999	4,693202	3942,4999	10,177744	3942,4999	7,584432	3942,4999	9,238164
3950,2152	4,633421	3950,2152	10,062748	3950,2152	7,495409	3950,2152	9,140338
3957,9304	4,618817	3957,9304	10,043396	3957,9304	7,475981	3957,9304	9,135524
3965,6457	4,589367	3965,6457	9,99592	3965,6457	7,435497	3965,6457	9,105005
3973,361	4,566058	3973,361	9,95431	3973,361	7,400035	3973,361	9,076478
3981,0762	4,527127	3981,0762	9,891214	3981,0762	7,344557	3981,0762	9,024895
3988,7915	4,502709	3988,7915	9,851305	3988,7915	7,313391	3988,7915	9,002347
3996,5068	4,469146	3996,5068	9,786434	3996,5068	7,263542	3996,5068	8,962461
4004,222	4,443647	4004,222	9,740131	4004,222	7,222832	4004,222	8,930935