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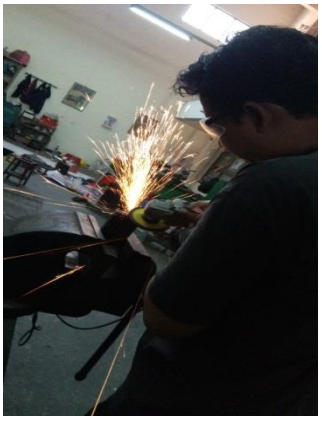

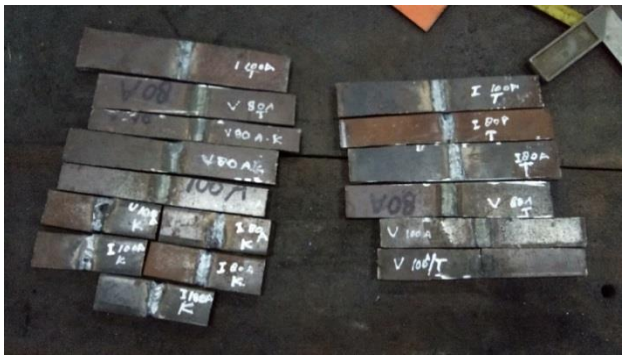

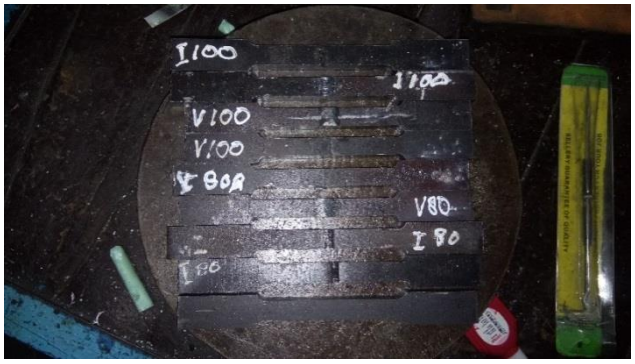
I100
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V80
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HARDNESS TESTER

HARDNESS TESTER

KEMENTRIAN RISET TEKNOLOGI DAN PENDIDIKAN TINGGI
UNIVERSITAS SEBELAS MARET
FAKULTAS TEKNIK PROGRAM STUDI TEKNIK MESIN
LABORATURIUM MATERIAL
Jln. Ir. Sutami 36a Kentingan Surakarta 57136 telp (0271) 632163
Website : www.mesin.uns.ac.id

BERITA ACARA PENERIMAAN SAMPEL

Yang bertanda tangan dibawah ini :
Nama perusahaan : Universitas 17 Agustus 1945 (UNTAG) Surabaya
Penanggung jawab : Ainur Rofiq
Alamat Institusi : Jl. Semolowaru No 45 Surabaya 60118
Telp/HP : 087863216494

Telah menyerahkan sampel uji tarik untuk dianalisa di Laboraturium Material Teknik Mesin dengan ketentuan/parameter sebagai berikut :

No	Nama Material	Jumlah sampel	Jenis pengujian
1	Baja komersial	18	Pengujian Tarik

Surakarta, 29 Oktober 2019

Penerima Sampel

Maruto Adhi P. ST

Pemberi Sampel

(Ainur Rofiq)

LABORATORIUM MATERIAL TEKNIK
FAKULTAS TEKNIK INDUSTRI
UNIVERSITAS 17 AGUSTUS 1945 SURABAYA
SEMESTER GASAL 2019-2020

Nama Mahasiswa : Aulia Rofiq
NBI : 142150 4834
Tanggal Pengujian : 26 - November 2019.

Data Hasil Praktikum Pengujian Kekerasan Rockwell

NO	BENDA UJI	KONDISI INDENTASI	INDENTASI	HRA	HRA RATA 2	KETERANGAN
1	V 80	P = 150 KG t = 5 Detik		53 58 60 57 58	57,2	

NO	BENDA UJI	KONDISI INDENTASI	INDENTASI	HRB	HRB RATA 2	KETERANGAN
2	V 100	P = 150 KG t = 5 Detik		53 56 57 53,5 55	54,9	

NO	BENDA UJI	KONDISI INDENTASI	INDENTASI	HRC	HRC RATA 2	KETERANGAN
3	I 80	P = 150 KG t = 5 Detik		52 53 55 51,5 54	53,1	

Surabaya, 26 November 2019

As.Lab. Material

LABORATORIUM MATERIAL TEKNIK
FAKULTAS TEKNIK INDUSTRI
UNIVERSITAS 17 AGUSTUS 1945 SURABAYA
SEMESTER GASAL 2019-2020

Nama Mahasiswa : Amir Rofiq
NBI : 142150434
Tanggal Pengujian : 26 - NOVEMBER 2019.

Data Hasil Praktikum Pengujian Kekerasan Rockwell

NO	BENDA UJI	KONDISI INDENTASI	INDENTASI	HRA	HRA RATA 2	KETERANGAN
1	I 80	P = 150 KG t = 5 Detik		52 54 56 50 52	52,8	

NO	BENDA UJI	KONDISI INDENTASI	INDENTASI	HRB	HRB RATA 2	KETERANGAN
2	I 100	P = 150 KG t = 5 Detik		54 55 56,5 53,5 55	54,8	

NO	BENDA UJI	KONDISI INDENTASI	INDENTASI	HRC	HRC RATA 2	KETERANGAN
3	I 100	P = KG t = Detik		52,5 53,5 55 52 54	53,4	

Surabaya, 26 November 2019

As.Lab. Material

LABORATORIUM MATERIAL TEKNIK
FAKULTAS TEKNIK INDUSTRI
UNIVERSITAS 17 AGUSTUS 1945 SURABAYA
SEMESTER GASAL 2019-2020

Nama Mahasiswa : Aymir Rafid
NBI : 142150434
Tanggal Pengujian : 26 - November - 2019.

Data Hasil Praktikum Pengujian Kekerasan Rockwell

NO	BENDA UJI	KONDISI INDENTASI	INDENTASI	HRC	HRA RATA 2	KETERANGAN
1	V 80.	P = KG t = Detik		60 59 55 53,5 55		

NO	BENDA UJI	KONDISI INDENTASI	INDENTASI	HRB	HRB RATA 2	KETERANGAN
2	V 100	P = KG t = Detik		54 57 59. 56 53		

NO	BENDA UJI	KONDISI INDENTASI	INDENTASI	HRC	HRC RATA 2	KETERANGAN
3	Tanpa Pengelasan.	P = KG t = Detik		52 52 54 52 53	52,6	

Surabaya, 26 November 2019

As.Lab. Material

Print Date:10/29/2019

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name / ID	a	au	b	bu	Lo	Lu	So	Su	ReH
	mm	mm	mm	mm	mm	mm	mm^2	mm^2	MPa
NO.1	12.00		12.50		57.00		150.00		460

Name / ID	Rm	Fm
	MPa	kN
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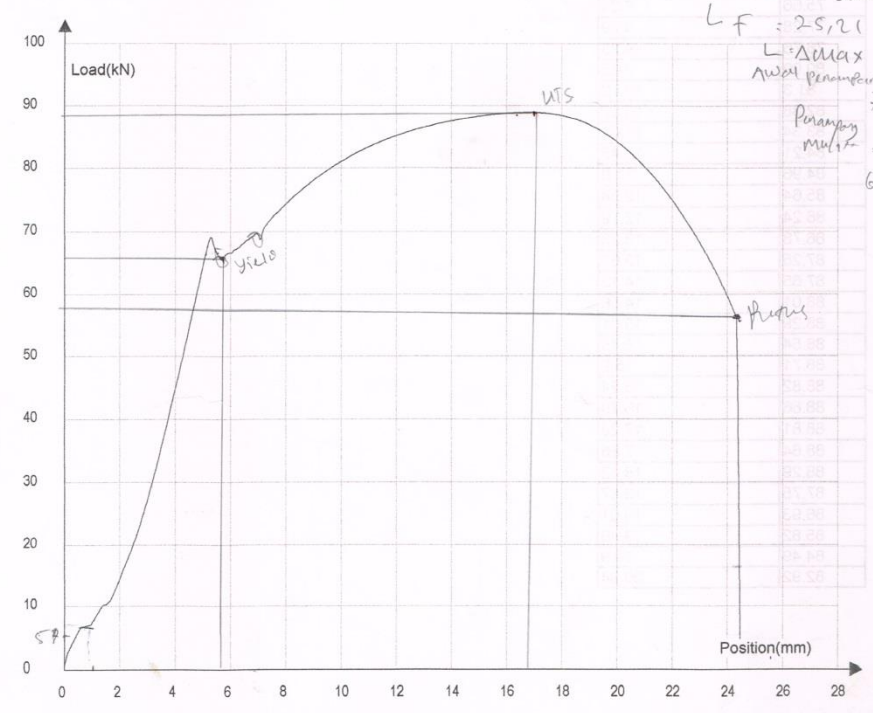


Tester: Audit: 1/1

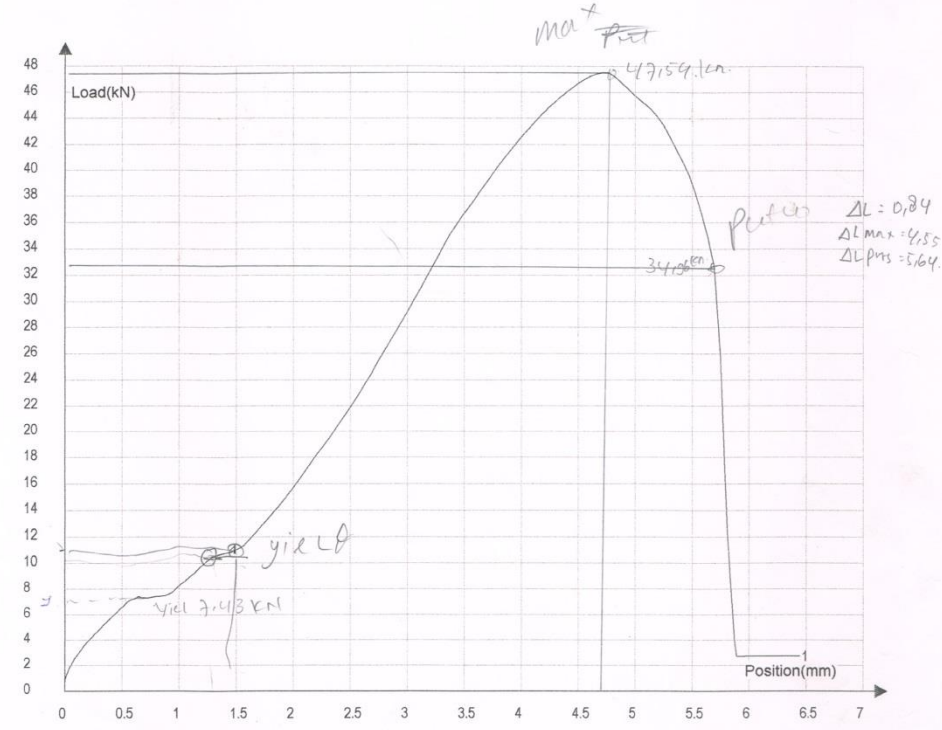
Pengelasan . kampuh V 80 Ampere I

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name / ID	a	au	b	bu	Lo	Lu	So	Su	ReH
	mm	mm	mm	mm	mm	mm	mm^2	mm^2	MPa
NO.1	12.00		12.50		57.00		150.00		

Name / ID	Rm	Fm
	MPa	kN
NO.1	315	47.54



Tester: Audit: 1/1

Print Date:10/29/2019

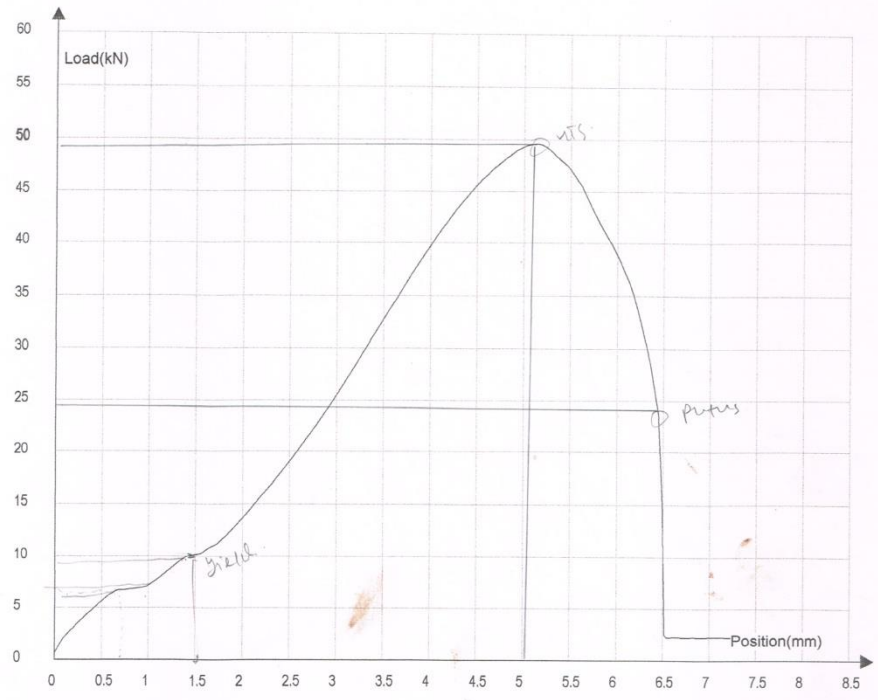
Pengelasan kampuh V 80 ampere II

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name / ID	a	au	b	bu	Lo	Lu	So	Su	ReH
	mm	mm	mm	mm	mm	mm	mm^2	mm^2	MPa
NO.1	12.00		12.50		57.00		150.00		

Name / ID	Rm	Fm
	MPa	kN
NO.1	330	49.61



Tester: Audit: 1/1

Print Date:10/29/2019

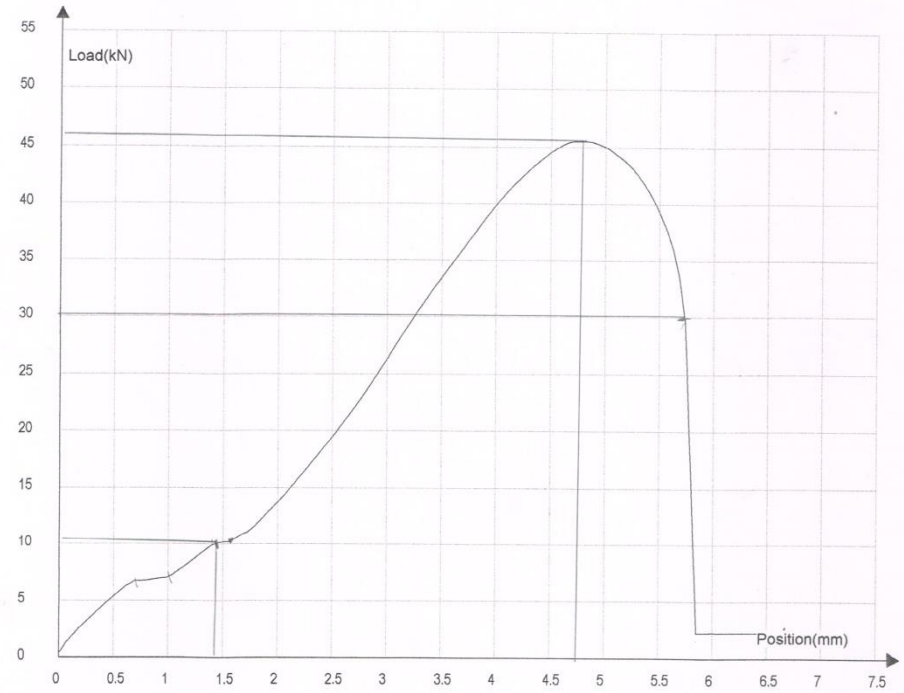
Pengelasan kampuh #V 100 I

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name / ID	a	au	b	bu	Lo	Lu	So	Su	ReH
	mm	mm	mm	mm	mm	mm	mm^2	mm^2	MPa
NO.1	12.00		12.50		57.00		150.00		

Name / ID	Rm	Fm
	MPa	kN
NO.1	305	45.56



Tester: Audit: 1/1

Print Date:10/29/2019

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name / ID	a	au	b	bu	Lo	Lu	So	Su	ReH
	mm	mm	mm	mm	mm	mm	mm^2	mm^2	MPa
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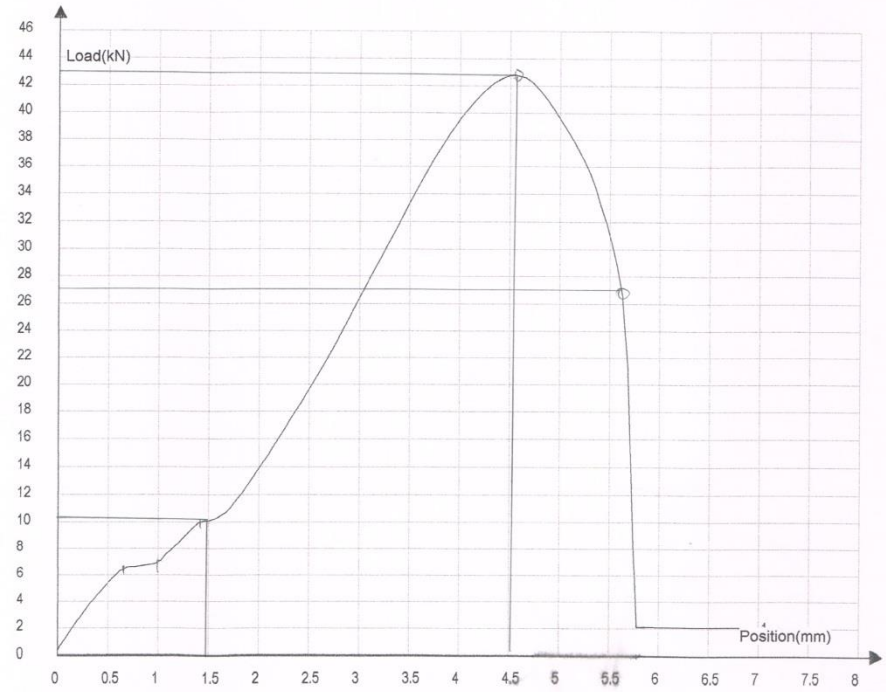

Tester: Audit: 1/1

Print Date:10/29/2019

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name / ID	a	au	b	bu	Lo	Lu	So	Su	ReH
	mm	mm	mm	mm	mm	mm	mm^2	mm^2	MPa
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Name / ID	Rm	Fm
	MPa	kN
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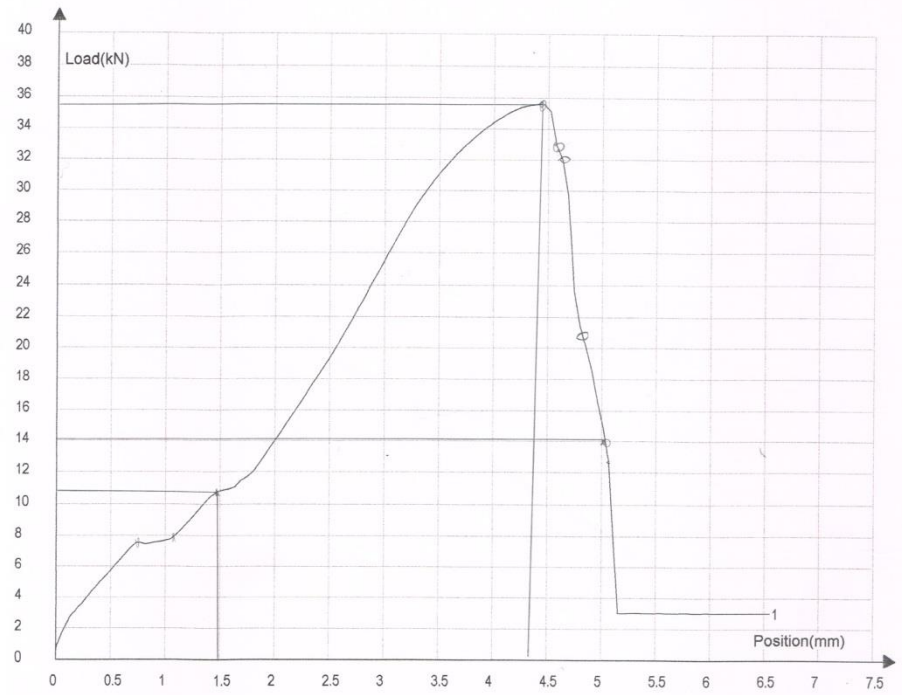


Tester: Audit: 1/1

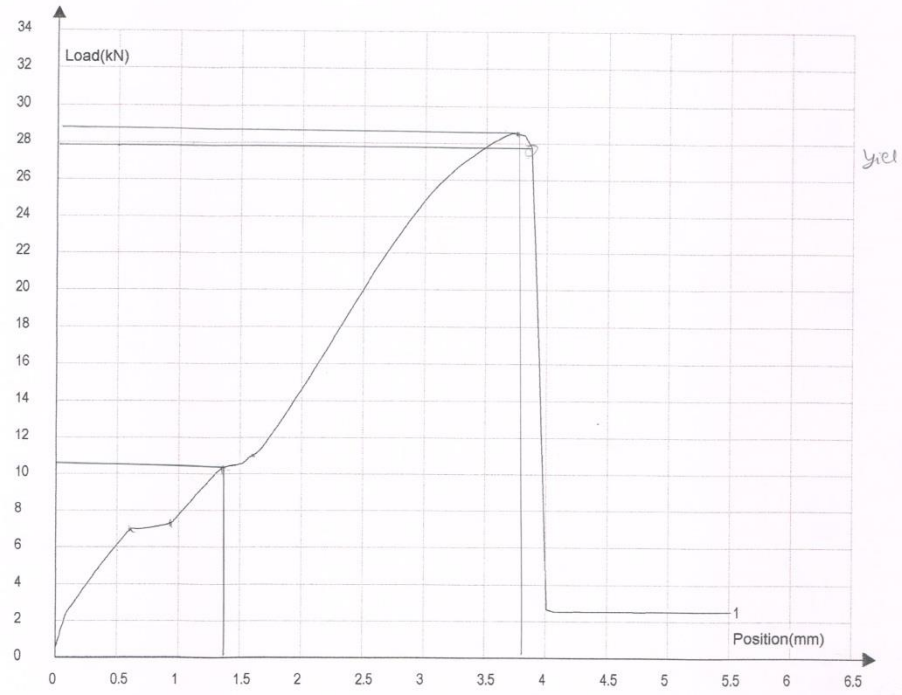
Print Date:10/29/2019

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name / ID	a	au	b	bu	Lo	Lu	So	Su	ReH
	mm	mm	mm	mm	mm	mm	mm^2	mm^2	MPa
NO.1	12.00		12.50		57.00		150.00		

Name / ID	Rm	Fm
	MPa	kN
NO.1	190	28.54



Tester: Audit: 1/1

Print Date:10/29/2019

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name / ID	a	au	b	bu	Lo	Lu	So	Su	ReH
	mm	mm	mm	mm	mm	mm	mm^2	mm^2	MPa
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	MPa	kN
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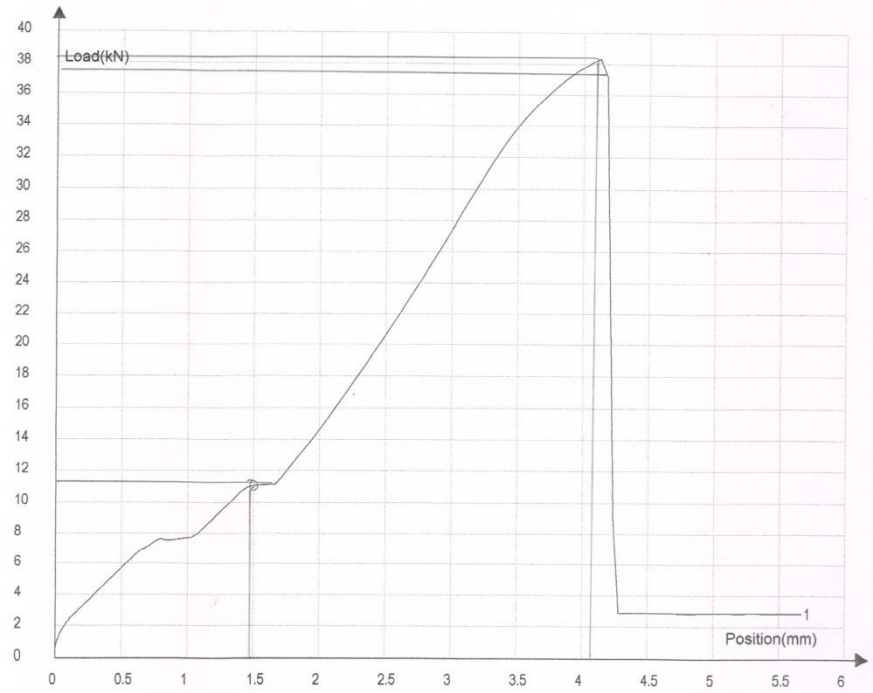


Tester: Audit: 1/1

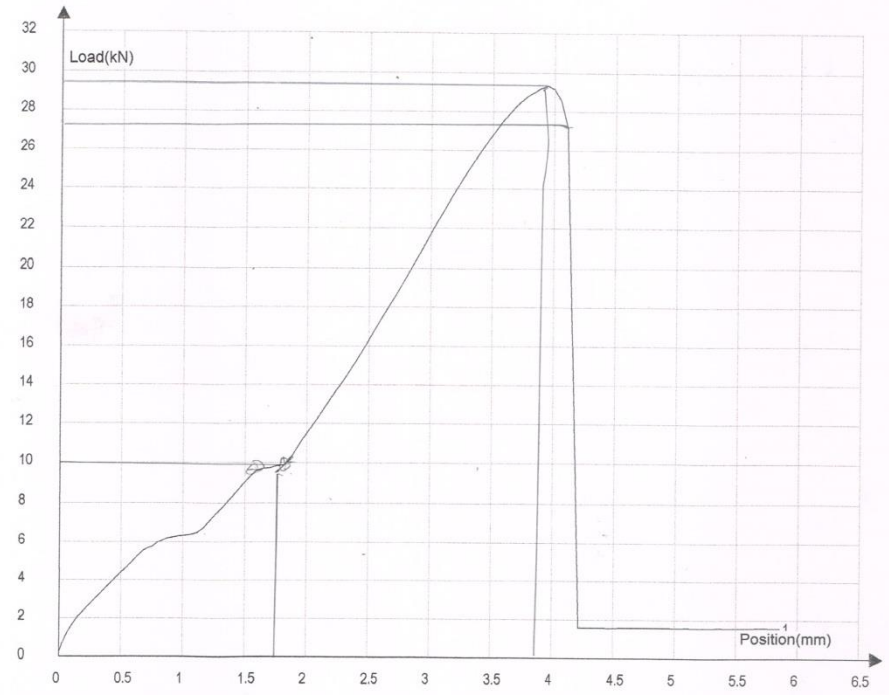
Print Date:10/29/2019

Metallic materials-Tensile Testing Report

Standard: BS EN10002-1:2001

Name / ID	a	au	b	bu	Lo	Lu	So	Su	ReH
	mm	mm	mm	mm	mm	mm	mm^2	mm^2	MPa
NO.1	12.00		12.50		57.00		150.00		

Name / ID	Rm	Fm
	MPa	kN
NO.1	196	29.33



Tester: Audit: 1/1