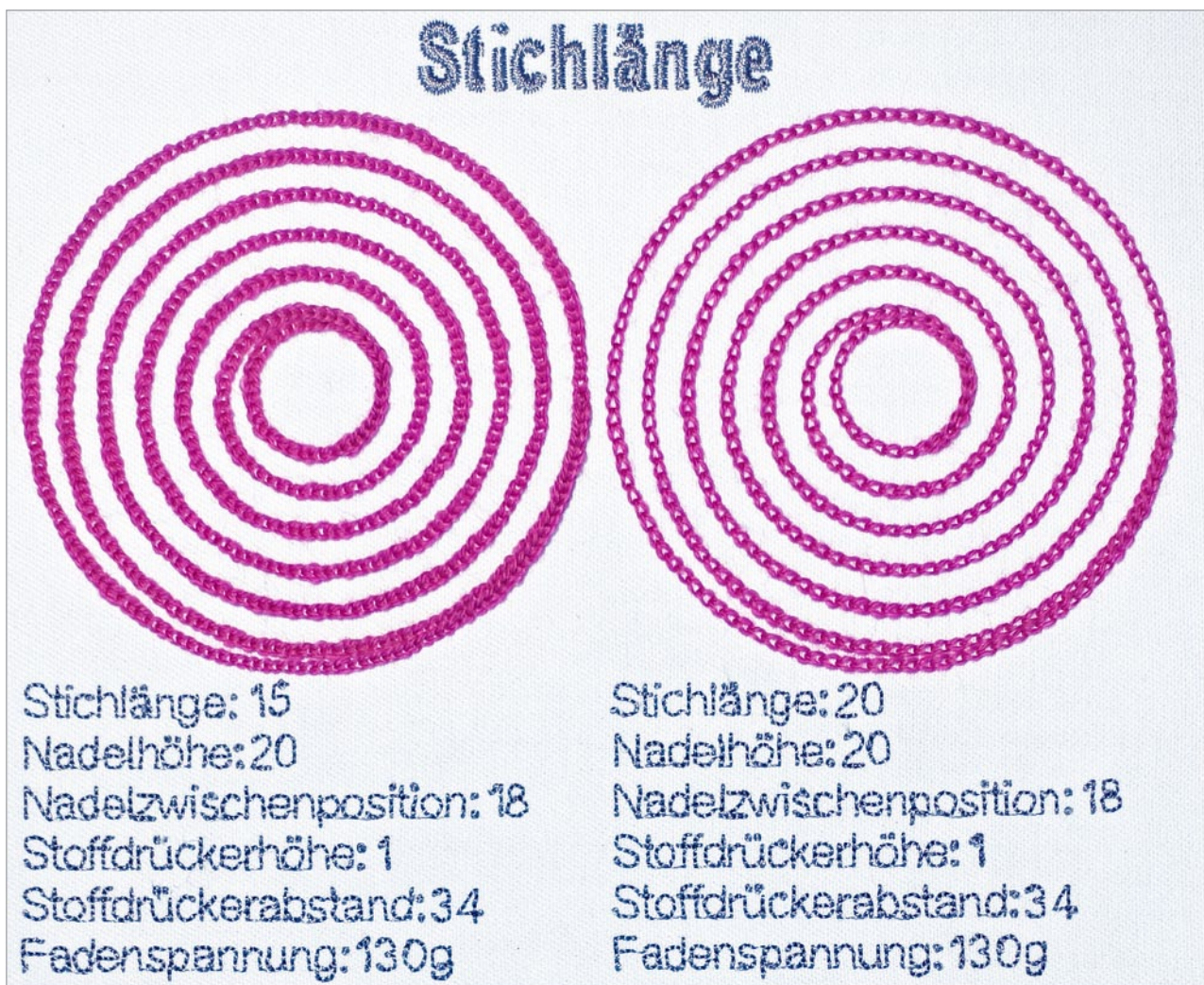


Sample Book

K-Head: Moss and Chain

Settings and optical effect



Contents of sample book

Introduction.....	2
Settings / Parameters chain stitch	3
Stitch length.....	4
Needle height	5
Presser foot height	6
Thread tension	7
Tack stitch	8
Settings / Parameters moss stitch.....	9
Moss area	9
Chain stitch border	9
Variants moss embroidery	10
Stitch length.....	11
Stitch distance	12
Needle height	13
Intermediate needle position.....	14
Presser foot height	15
Thread tension	16

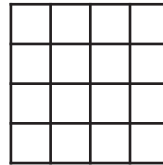
Introduction

Digitizing chain stitch

- Stitches smaller than 0.5mm lead to thread breaks
- Tack stitches at the beginning and lock stitches at the end of chain stitches should be avoided-> see "Tack stitch".
- In order to fix the thread at the beginning and the end, embroider over the previous stitches over a longer distance.
- The chain stitch should not be used to embroider corners smaller than 90 °.

Digitizing moss stitch

- To keep the edge loops of an moss embroidery upright, embroider a chain stitch border around the area before.
- The chain stitch border has a distance of 1 to 2mm to the moss surface.
- To embroider a moss surface, digitize a grid
- Create a grid structure with the setting



Intermediate needle position

- Chain stitch: The intermediate needle position has no influence on the appearance.
- Moss stitch: The intermediate needle position is very important for the appearance of a moss stitch.

Stitch density <-> Stitch distance

- The stitch density is the density of the stitches in a filling area.
- The value used to set the stitch density is the stitch distance.
- A high stitch density is achieved with a low stitch distance value.

Presser foot spacing

- The presser foot spacing is a constant value.
- The presser foot spacing does not affect the appearance of the chain stitch.
- The presser foot spacing does not affect the appearance of the moss stitch.

Thread tension

The thread tension for the sample book was measured as shown in (1).

Yarn position

The thread tension must be set individually for each thread position (2).



(1)



(2)

Settings / Parameters chain stitch

Yarn: Madeira Burmilana 12 col.: 3900
Yarn position: 2
Needle: Nm 100/16
Presser foot insert: 1,0
Stitch plate insert: Hole size 3

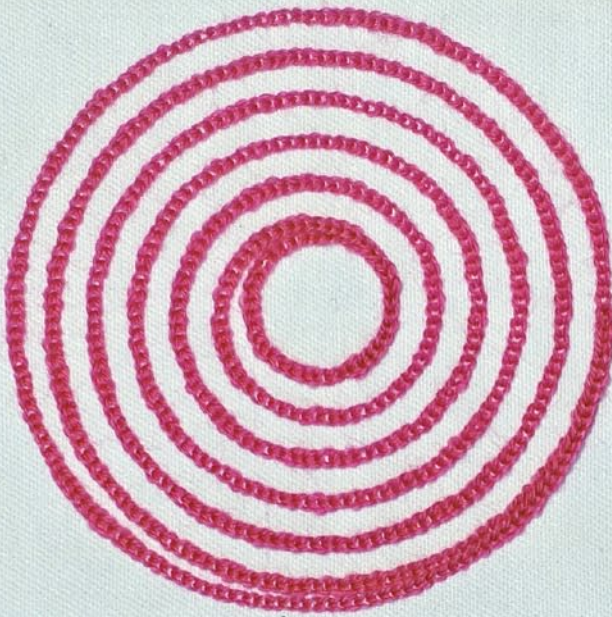
Settings chain stitch:

Parameter variable, see „embroidered data“

Timing K head - type chain stitch

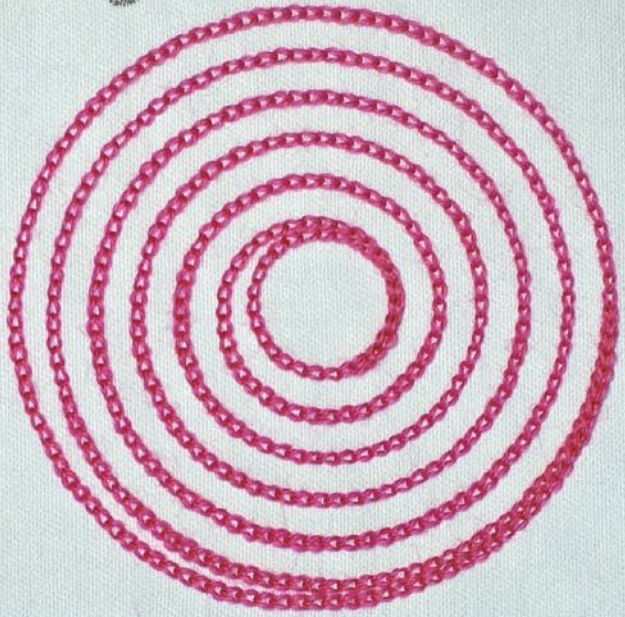
Downward movement		Upward movement	
Thread layer start:	5 m	Needle start:	25 ms
Presser foot start:	1 ms	Presser foot start:	10 ms
Embroidery mode:	0	Pantograph start:	5 ms

Stichlänge



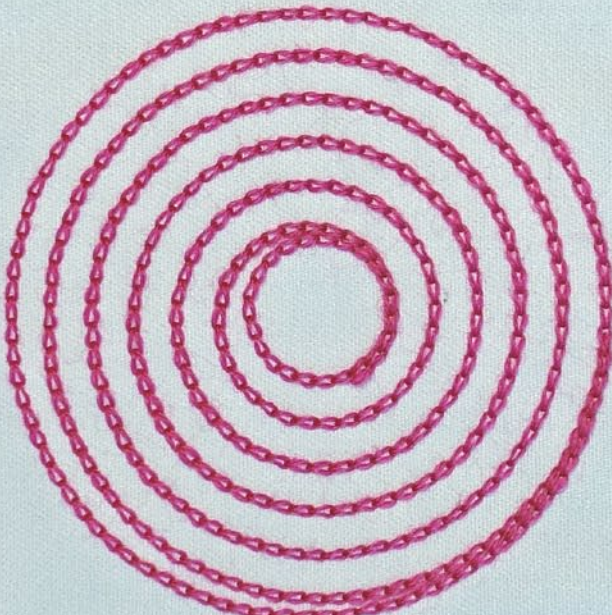
Stichlänge: 15

Stitch length:	15
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g



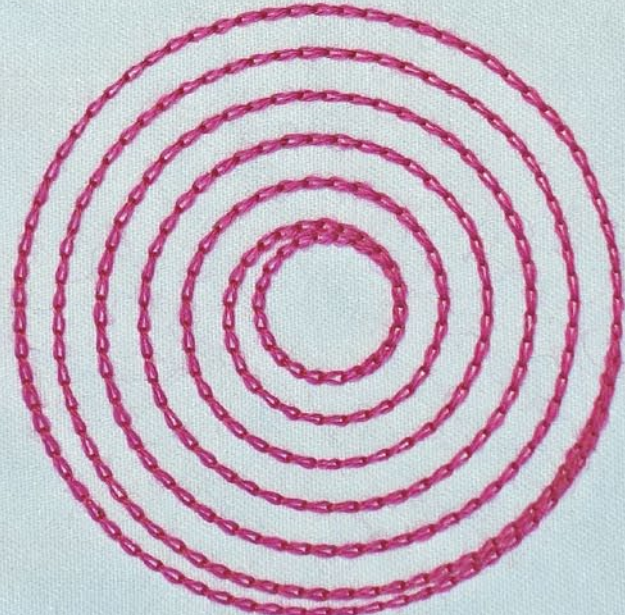
Stichlänge: 20

Stitch length:	20
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g



Stichlänge: 25

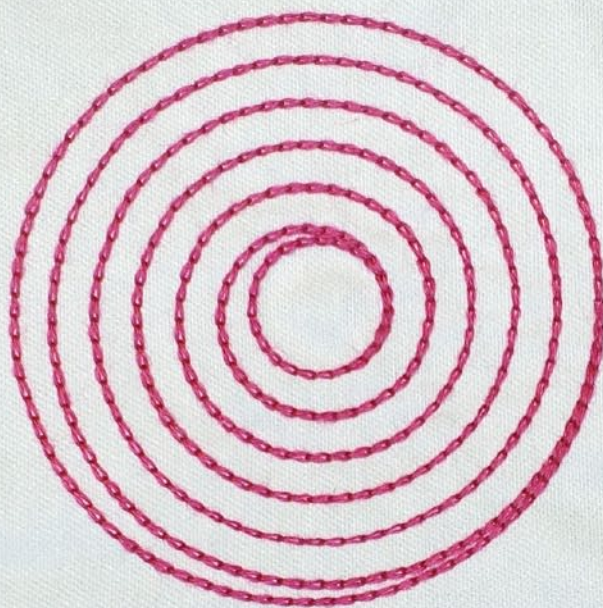
Stitch length:	25
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g



Stichlänge: 30

Stitch length:	30
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g

Nadelhöhe



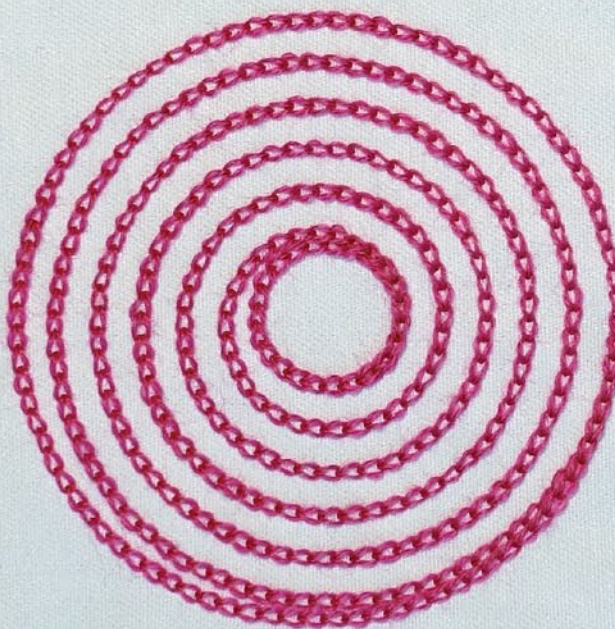
Stichlänge: 25

Stitch length:	25
Needle height:	10
Intermediate needle position:	8
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g



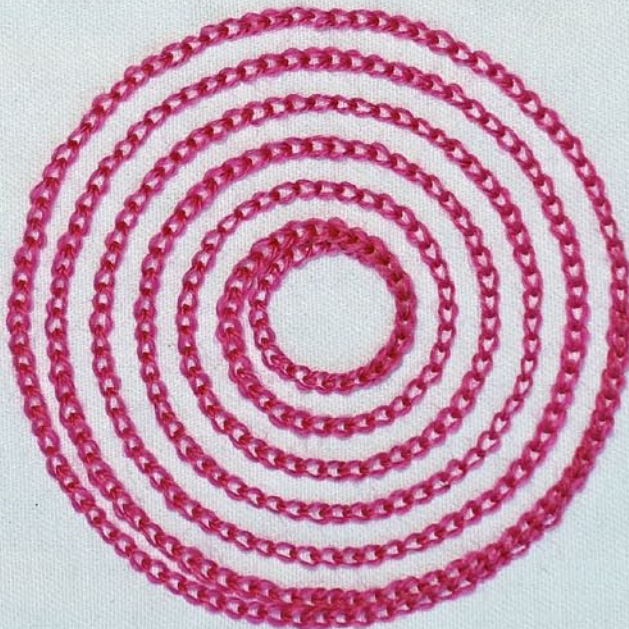
Stichlänge: 25

Stitch length:	25
Needle height:	15
Intermediate needle position:	13
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g



Stichlänge: 25

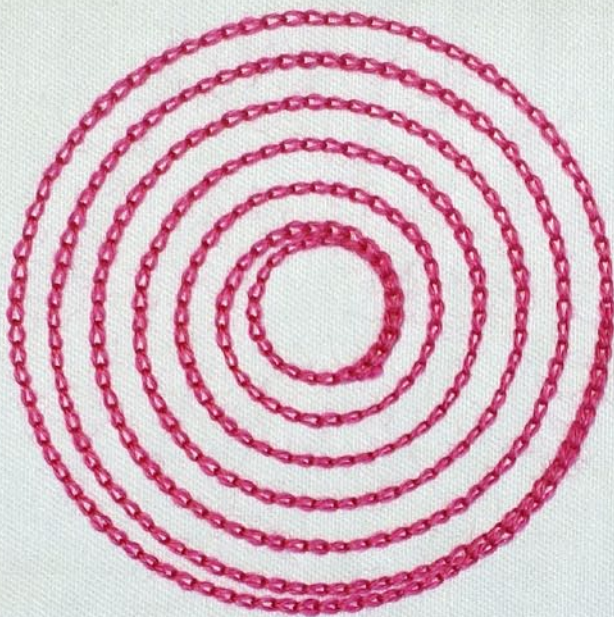
Stitch length:	25
Needle height:	25
Intermediate needle position:	23
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g



Stichlänge: 25

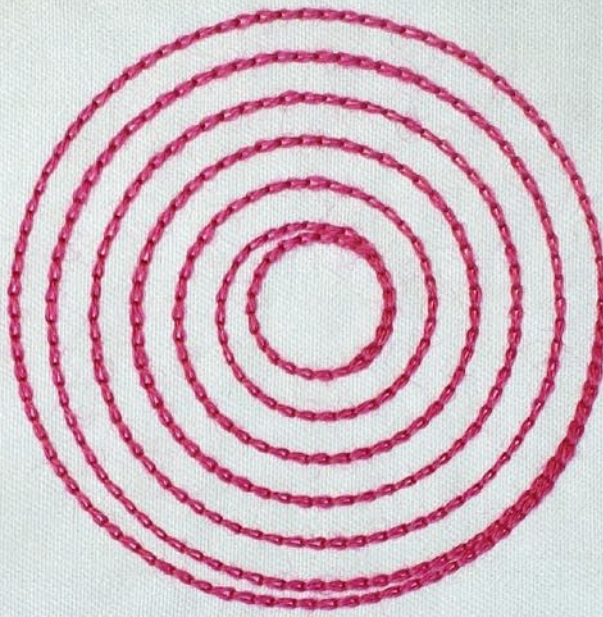
Stitch length:	25
Needle height:	30
Intermediate needle position:	28
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g

Stoffdrückerhöhe



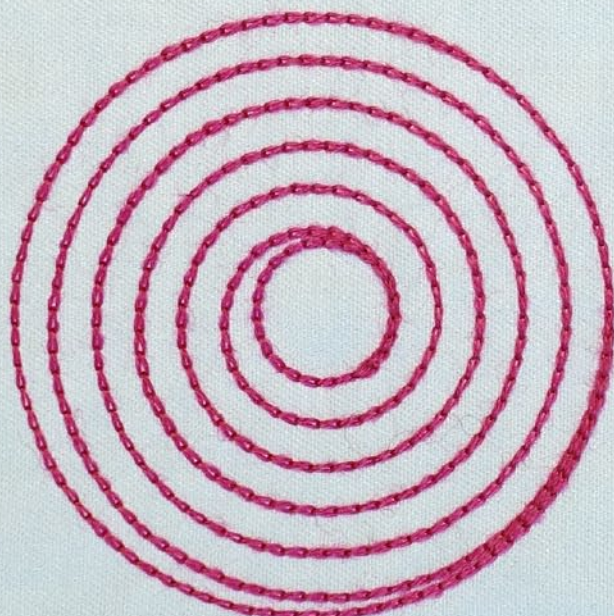
Stichlänge 25

Stitch length:	25
Needle height:	25
Intermediate needle position:	23
Presser foot height:	3
Presser foot spacing:	34
Thread tension:	130g



Stichlänge 25

Stitch length:	25
Needle height:	25
Intermediate needle position:	23
Presser foot height:	5
Presser foot spacing:	34
Thread tension:	130g



Stichlänge 25

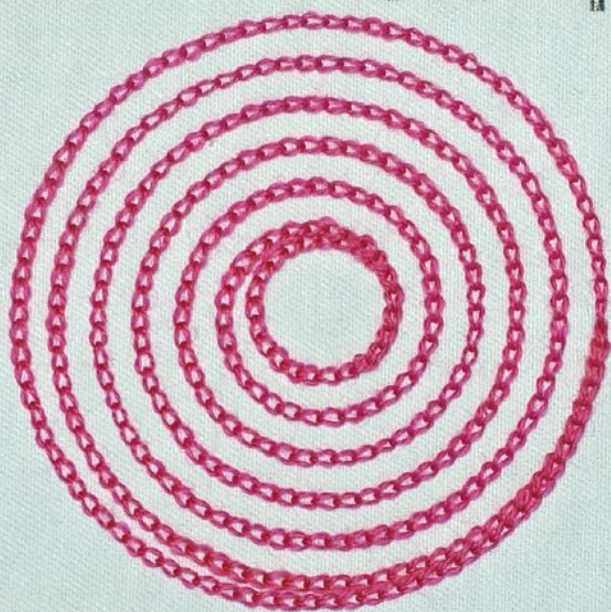
Stitch length:	25
Needle height:	25
Intermediate needle position:	23
Presser foot height:	7
Presser foot spacing:	34
Thread tension:	130g



Stichlänge 25

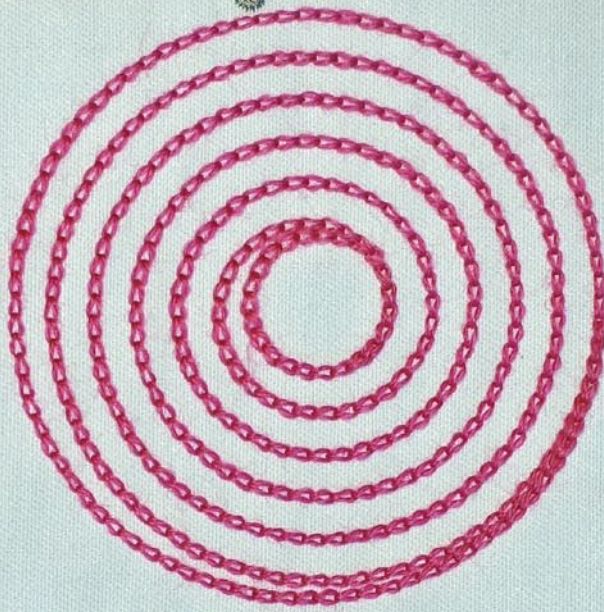
Stitch length:	25
Needle height:	25
Intermediate needle position:	23
Presser foot height:	9
Presser foot spacing:	34
Thread tension:	130g

Fadenspannung



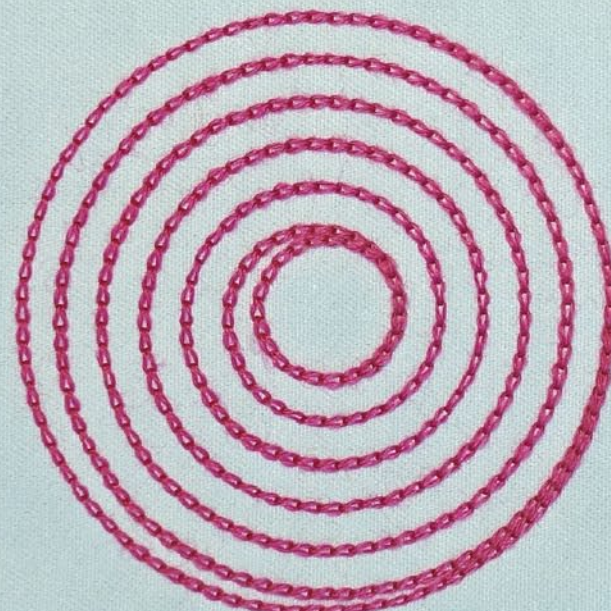
Stichlänge: 25

Stitch length:	25
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	50g



Stichlänge: 25

Stitch length:	25
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stichlänge: 25

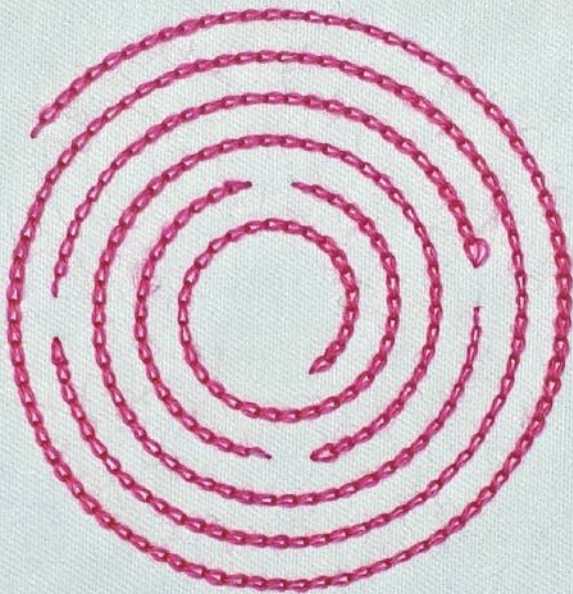
Stitch length:	25
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	150g



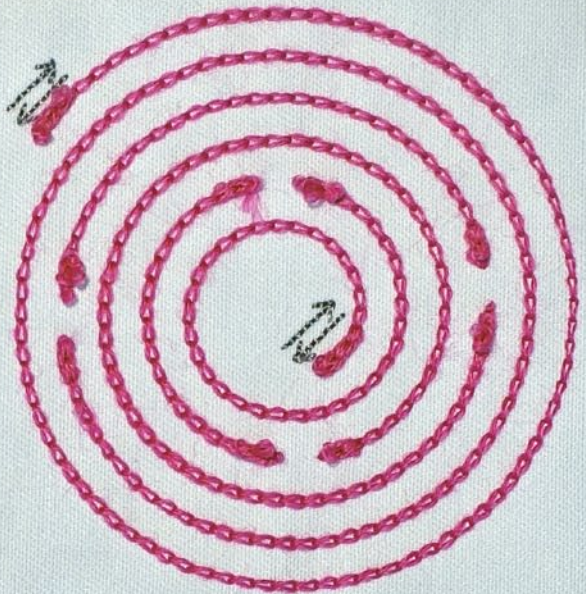
Stichlänge: 25

Stitch length:	25
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	200g

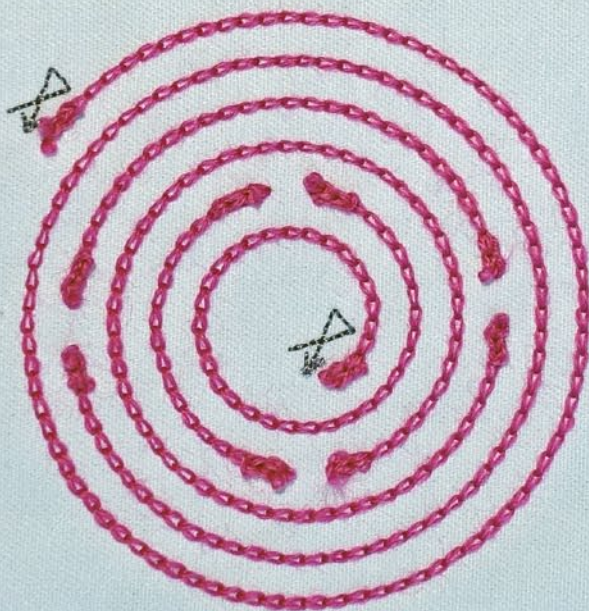
Ansticker



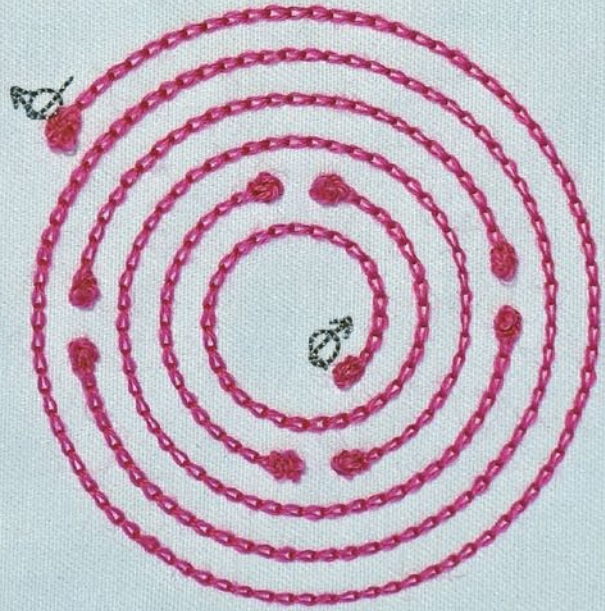
Stitch length:	25
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g



Stitch length:	25
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g



Stitch length:	25
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g



Stitch length:	25
Needle height:	20
Intermediate needle position:	18
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	130g

Settings / Parameters moss stitch

Yarn: Madeira Burmilana 12 col.: 3900
Yarn position: 2
Needle: Nm 100/16
Presser foot insert: 1,0
Stitch plate insert: Hole size 3

Settings moss stitch type

Parameter variable, see „embroidered data“

Timing K head – Moss stitch

Downward movement		Upward movement	
Thread layer start:	5 m	Needle start:	30 ms
Presser foot start:	15 ms	Presser foot start:	18 ms
Embroidery mode:	0	Pantograph start:	10 ms

Chain stitch border

Settings chain stitch type

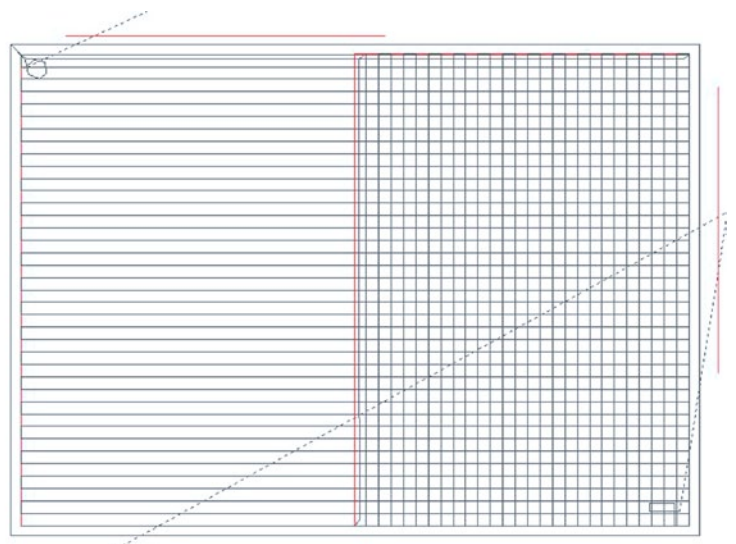
Stitch length: 25
Needle height: 15
Intermediate needle position: 13
Presser foot height: 1
Presser foot spacing: 34
Thread tension: 100 g

Timing K head – Chain stitch

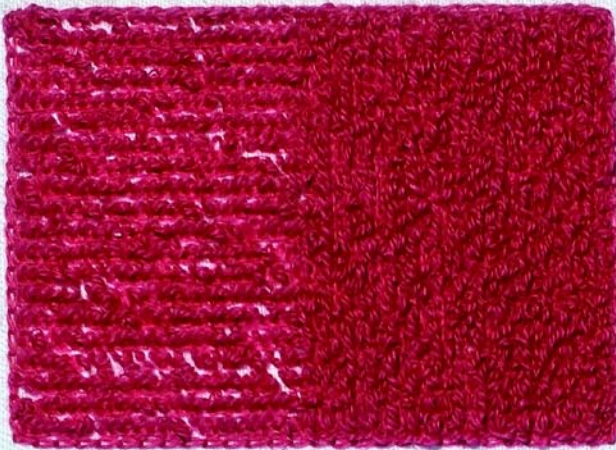
Downward movement		Upward movement	
Thread layer start:	5 m	Needle start:	25 ms
Presser foot start:	1 ms	Presser foot start:	10 ms
Embroidery mode:	0	Pantograph start:	5 ms

Moss area

1st layer: embroidered completely horizontally
2nd layer: half embroidered vertically



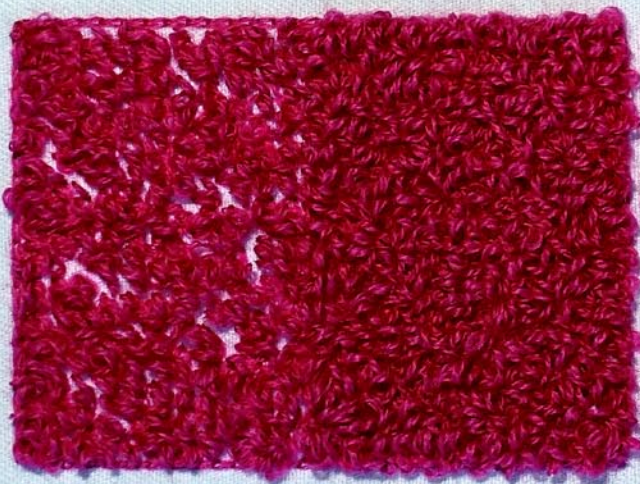
Moosvarianten



Stitch length:	15
Stitch spacing:	25
Needle height:	20
Intermediate needle position:	22
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	20
Stitch spacing:	25
Needle height:	25
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	30
Stitch spacing:	20
Needle height:	35
Intermediate needle position:	35
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

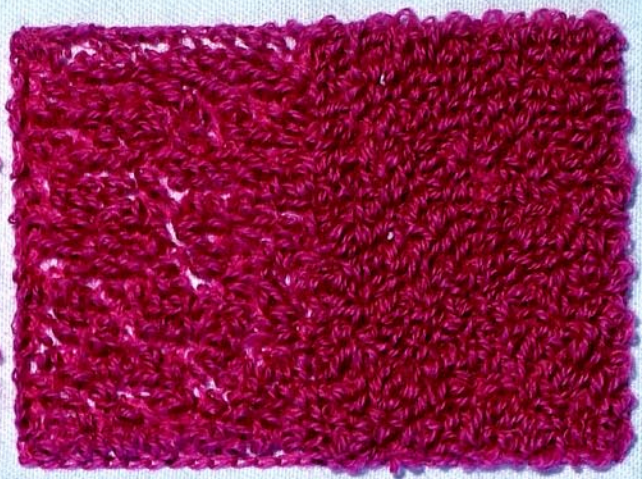


Stitch length:	35
Stitch spacing:	20
Needle height:	40
Intermediate needle position:	40
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

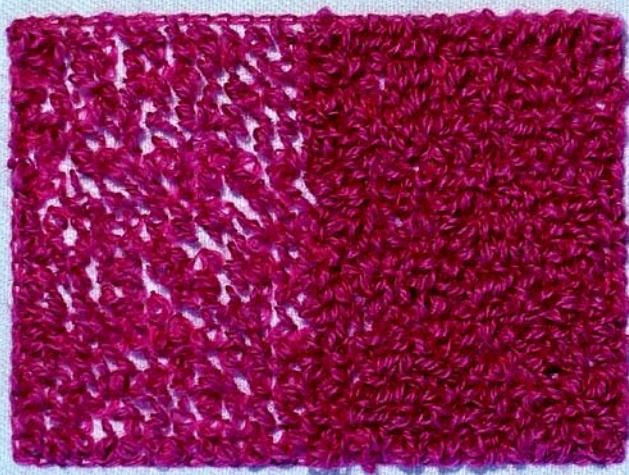
Stichlänge



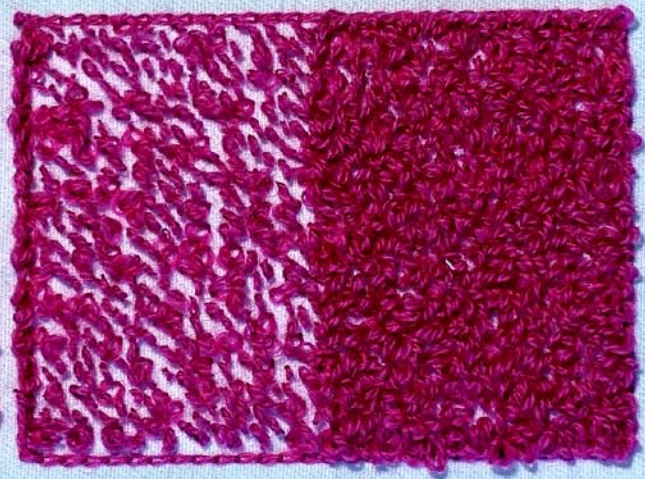
Stitch length:	15
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	20
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	30
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	35
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

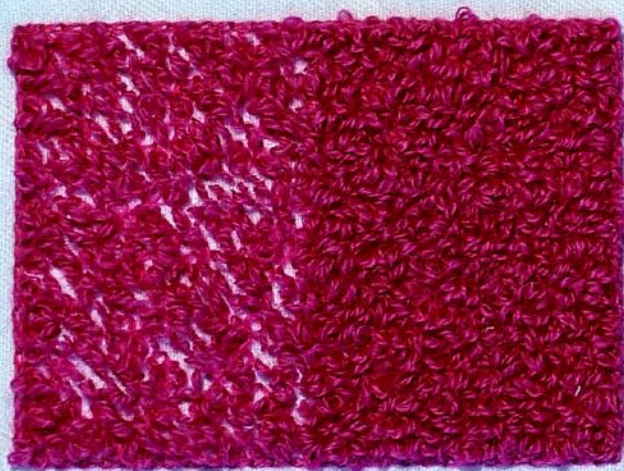
Stichdistanz



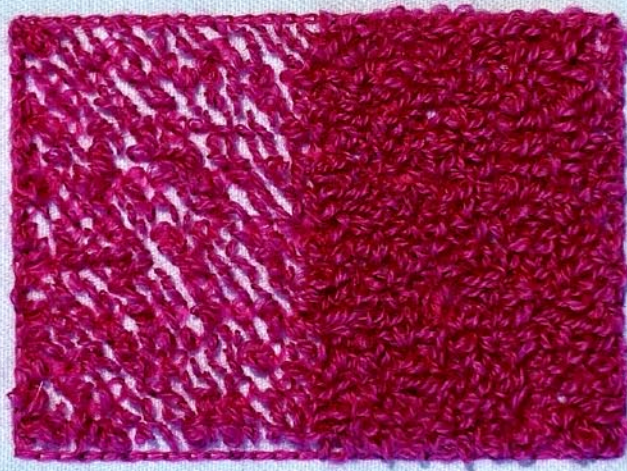
Stitch length:	25
Stitch spacing:	15
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	25
Stitch spacing:	20
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

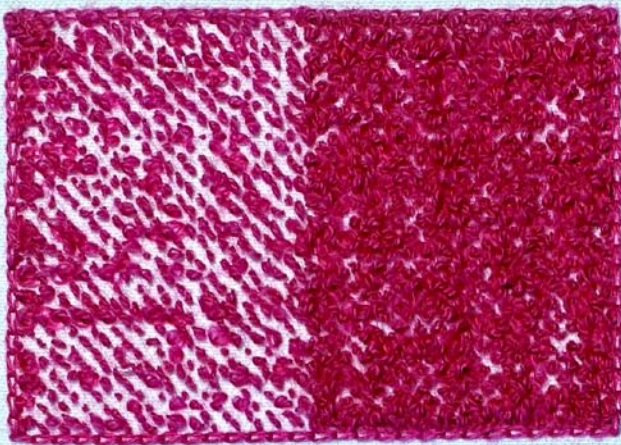


Stitch length:	25
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

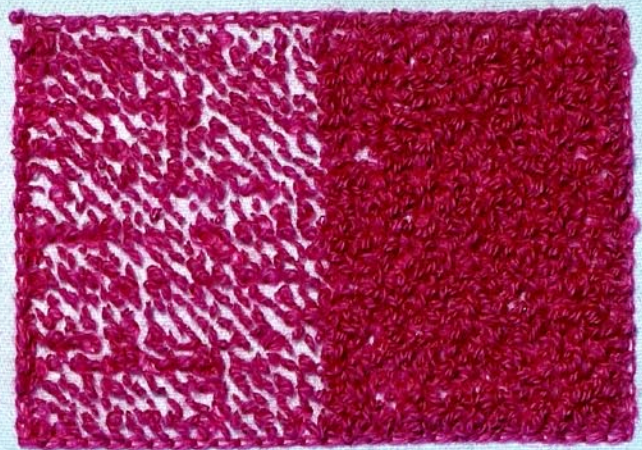


Stitch length:	25
Stitch spacing:	30
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

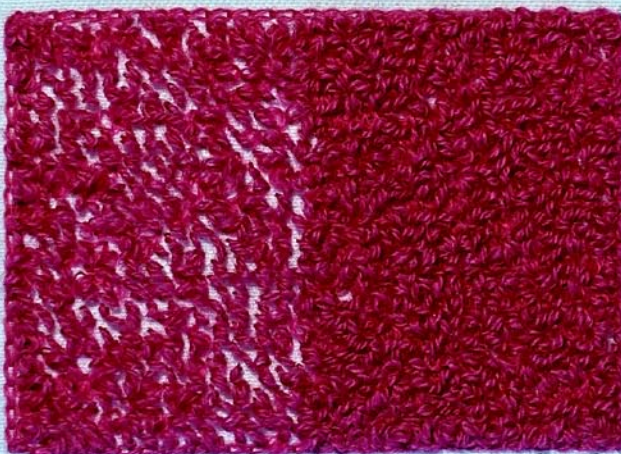
Nadelhöhe



Stitch length:	25
Stitch spacing:	25
Needle height:	15
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	25
Stitch spacing:	25
Needle height:	20
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	25
Stitch spacing:	25
Needle height:	25
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	25
Stitch spacing:	25
Needle height:	35
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

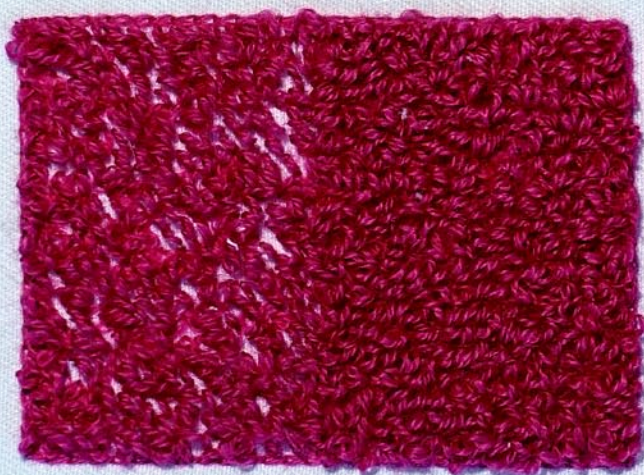
Nadelzwischenposition



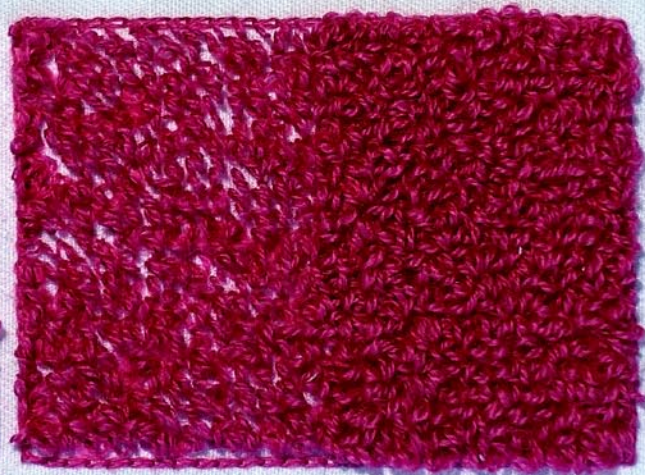
Stitch length:	25
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	15
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	25
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	20
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

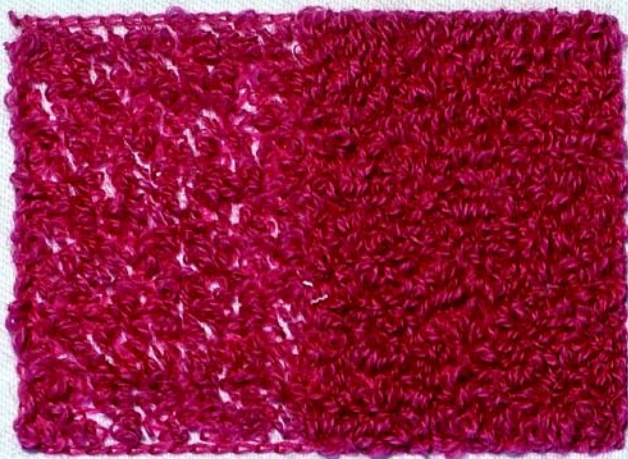


Stitch length:	25
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	30
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

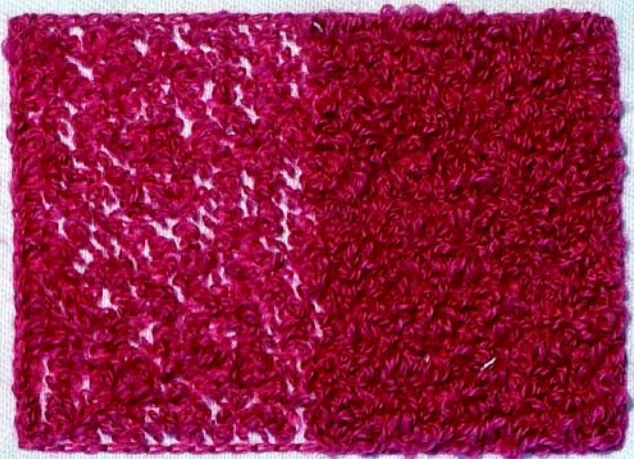


Stitch length:	25
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	35
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g

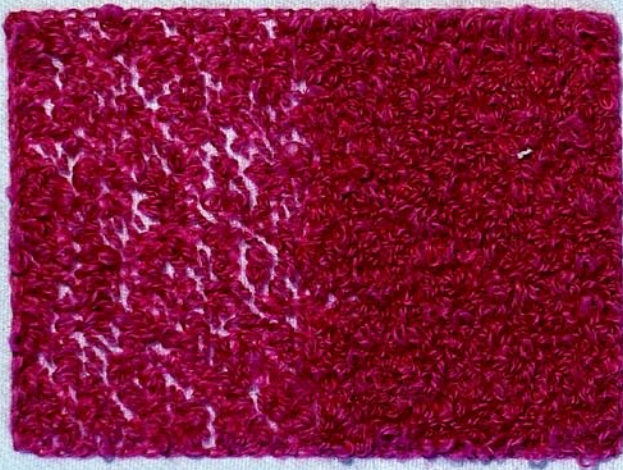
Stoffdrückerhöhe



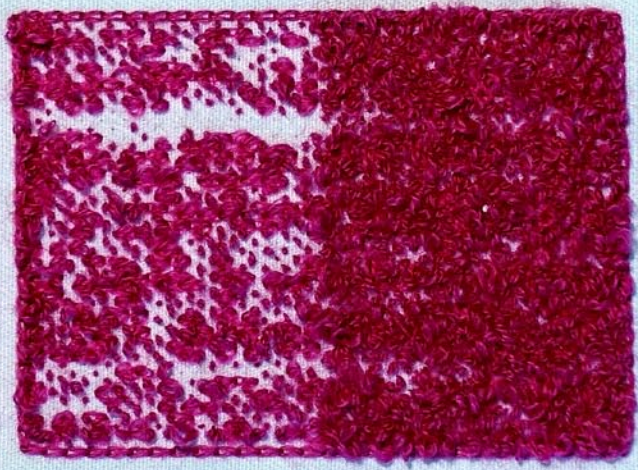
Stitch length:	25
Stitch spacing:	20
Needle height:	30
Intermediate needle position:	25
Presser foot height:	2
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	25
Stitch spacing:	20
Needle height:	30
Intermediate needle position:	25
Presser foot height:	3
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	25
Stitch spacing:	20
Needle height:	30
Intermediate needle position:	25
Presser foot height:	4
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	25
Stitch spacing:	20
Needle height:	30
Intermediate needle position:	25
Presser foot height:	5
Presser foot spacing:	34
Thread tension:	100g

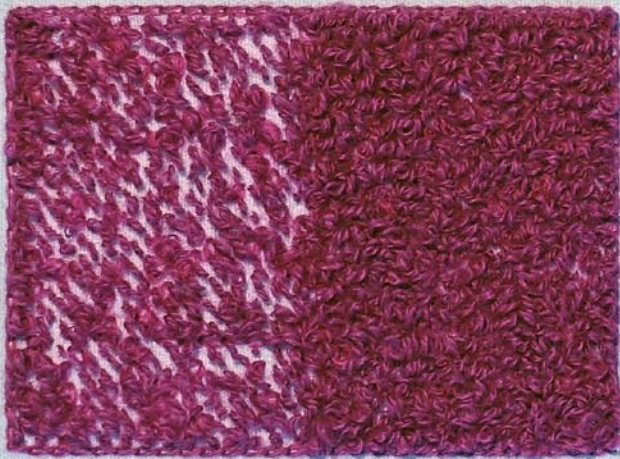
Fadenspannung



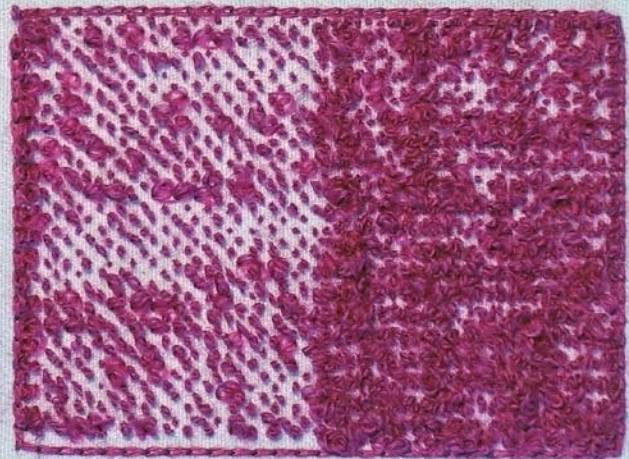
Stitch length:	25
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	50g



Stitch length:	25
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	100g



Stitch length:	25
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	150g



Stitch length:	25
Stitch spacing:	25
Needle height:	30
Intermediate needle position:	25
Presser foot height:	1
Presser foot spacing:	34
Thread tension:	200g



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