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Seamless Garment Calculations

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To begin, you must measure your body. I have the measurements in centimeters as that seems to be more accurate for this purpose, and place that on your chart. Next you need to cut a piece of silk 30 centimeters by 30 centimeters for your sample. Follow the instructions in the **Treads** article (December/January 2009/2010 issue) for felting a sample. You will need a scale to weigh your fiber used on your sample.

When the felting and fulling is finished, measure the sample to find out the shrinkage. Place the amount of fiber used and the shrinkage that occurred on your chart for length and width. Then your calculations begin. Follow the math on the chart and it will give you:

1. Size of the resist needed.
2. Amount of fiber required – however, this is all contingent upon felting **exactly** as you did for you small sample. Usually, you will need a bit more fiber to use on your seamless garment.

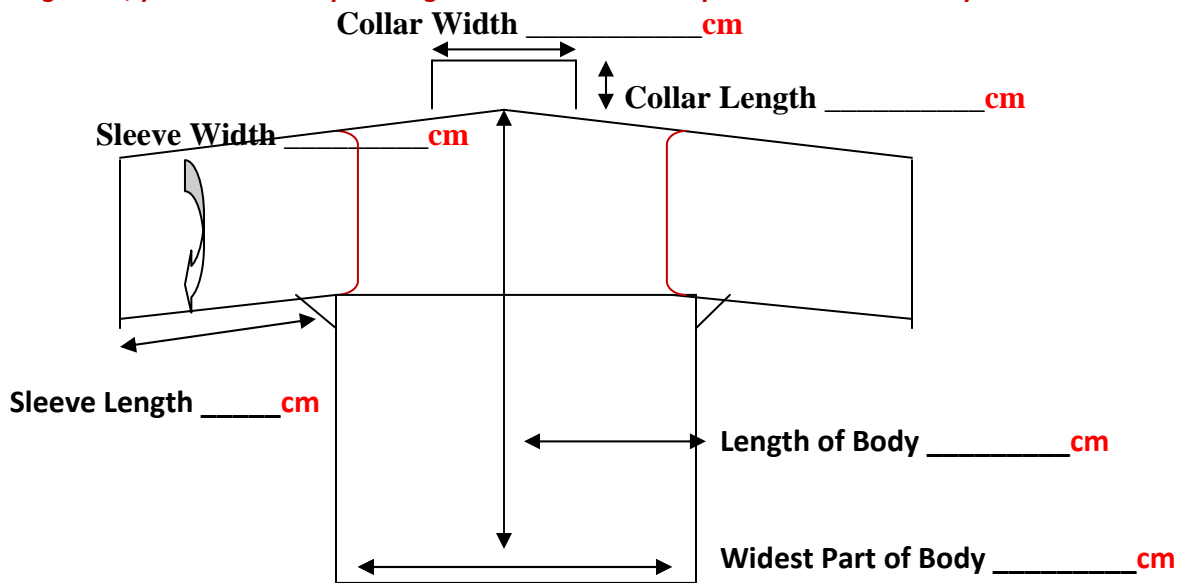
Innovative Fashions is offering a CD for sale that will do the calculations for you on www.lindaveilleux.com.

Seamless Garment Calculations for Fiber & Resist

Please use Centimeters – Copyright 2009 Linda Veilleux

Around Body	Adding Ease
Width (widest part) _____ cm	_____ cm (half) _____ cm
Length of top _____ cm (Measure from bump in center of back neck to bottom.)	_____ cm
Width of sleeve _____ cm (Measure your bicep – biggest part)	_____ cm (half) _____ cm
Length of sleeve _____ cm (Measure from underarm to wrist.)	_____ cm
Width of collar _____ cm	_____ cm (half) _____ cm
Length of collar _____ cm	_____ cm

If making a vest, you will need only the length and width of the body measurement and maybe the collar.



Sample Piece Of Silk: **30 cm L x 30 cm W** (Ex.: I pull out 6 gm. Fiber)

Subtract fiber you have left from fiber you pulled out to find amount you have used.

After Felting (_____ gm. Fiber used)

After felting, calculate shrinkage as follows:

Length: $30 \text{ cm} \div \text{_____ cm} = (E) \text{_____}$ or _____% of shrinkage

Width: $30 \text{ cm} \div \text{_____ cm} = (F) \text{_____}$ of _____% of shrinkage

Calculate the amount of fiber used per square cm of fabric:

30 cm L x 30 cm W to begin with.

_____ cm L x _____ cm W = _____ sq cm for _____ gm. of wool.

_____ gm. \div _____ sq cm = (A) _____ gm. (which means that 1 square cm of fabric used (A) _____ gm. of fiber.)

Front and back without sleeves:

_____ cm (length of top) x _____ cm (half the width of the top) = (B) _____ sq cm

(B) _____ sq cm x (A) _____ gm per sq cm = _____ gm.

 x 2 (front and back)
_____ gm. of fiber for
both sides of the body.

Sleeves:

_____ cm L x _____ cm W = _____ sq cm
 x 2 (front and back)

(C) _____ sq cm

(C) _____ sq cm x (A) _____ = _____ gm.

 x 2 (both sleeves)
_____ gm. of fiber for 2 sleeves, both sides.

Collar:

_____ cm L x _____ cm W = (D) _____ sq cm

(D) _____ sq cm x (A) _____ = _____ gm.

 x 2
_____ gm. of fiber for both sides of collar.

_____ gm. for front and back

_____ gm. for both sleeves

_____ gm. for both sides of collar

+ _____

_____ gm. of fiber needed for the garment (_____ gm. actually used in garment)

(convert from grams to ounces: 28.35 grams in 1 oz.)

_____ ozs. of fiber for the garment. (_____ ozs. actually used in garment)

Resist Size:

Sample Shrinkage:

Body Length: 30 cm ÷ _____ cm = (E) _____ or ____% Shrinkage
_____ cm x (E) _____ = _____ cm (_____ inches)

Body Width: 30 cm ÷ _____ cm = (F) _____ or ____% Shrinkage
_____ cm x (F) _____ = _____ cm (_____ inches)

Sleeve Length
_____ cm x (E) _____ = _____ cm (_____ inches)

Sleeve Width
_____ cm x (F) _____ = _____ cm (_____ inches)

Collar Length
_____ cm x (E) _____ = _____ cm (_____ inches)

Collar Width
_____ cm x (F) _____ = _____ cm (_____ inches)

