

HOW TO SERIES - MAKING A SAMPLE TO DETERMINE THE SHRINKAGE



I've been asked several times how you determine the shrinkage for a wet felting project.

Well, it's actually very easy. You should **make a sample and measure it before and after felting**.

THERE ARE THREE FUNDAMENTAL FACTORS TO TAKE INTO ACCOUNT THOUGH:

1. Use the same type (or types) of wool for your sample and project, since **not all wool types have the same shrinkage**.
2. Use the same number of layers and equally thick ones for your sample and project, since **the thickness of the layers influences the shrinkage**.
3. Felt the sample and your project to the same degree, since **the more you felt, the more the piece will shrink**.

You'll only get a correct sample if you follow these rules. And this becomes particularly important, if you want to felt a pair of slippers, gloves or a hat, because in these cases, size does matter 😊

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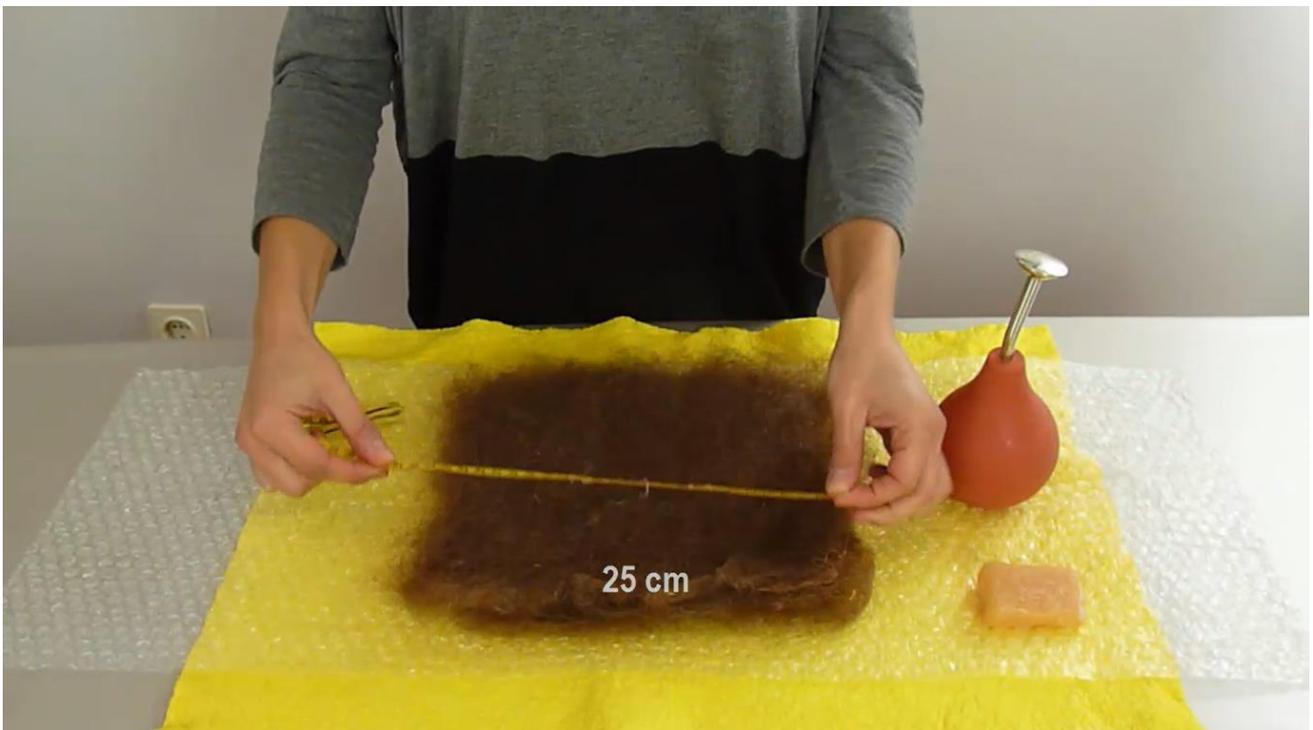


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So, let me show you an example.



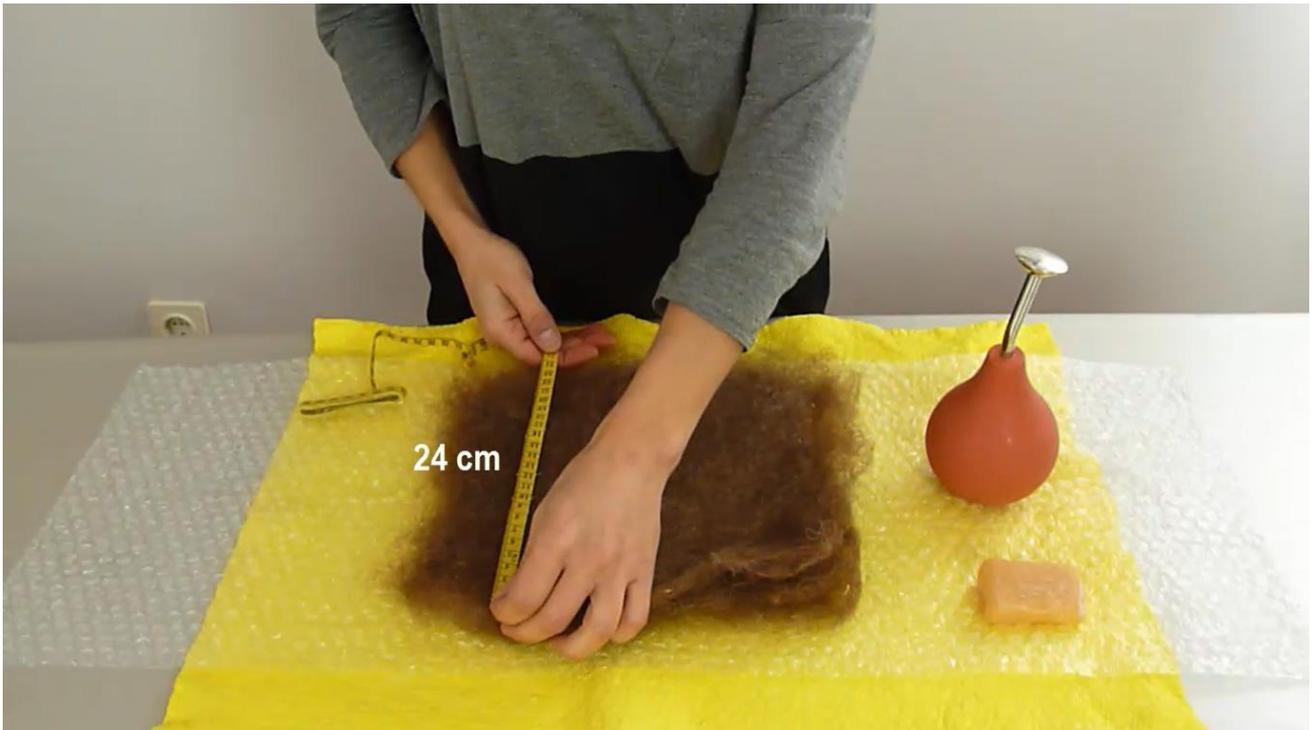
I'm using this wool to felt a hat and I know I'll need three layers. Here they are.



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Now I'll measure them.

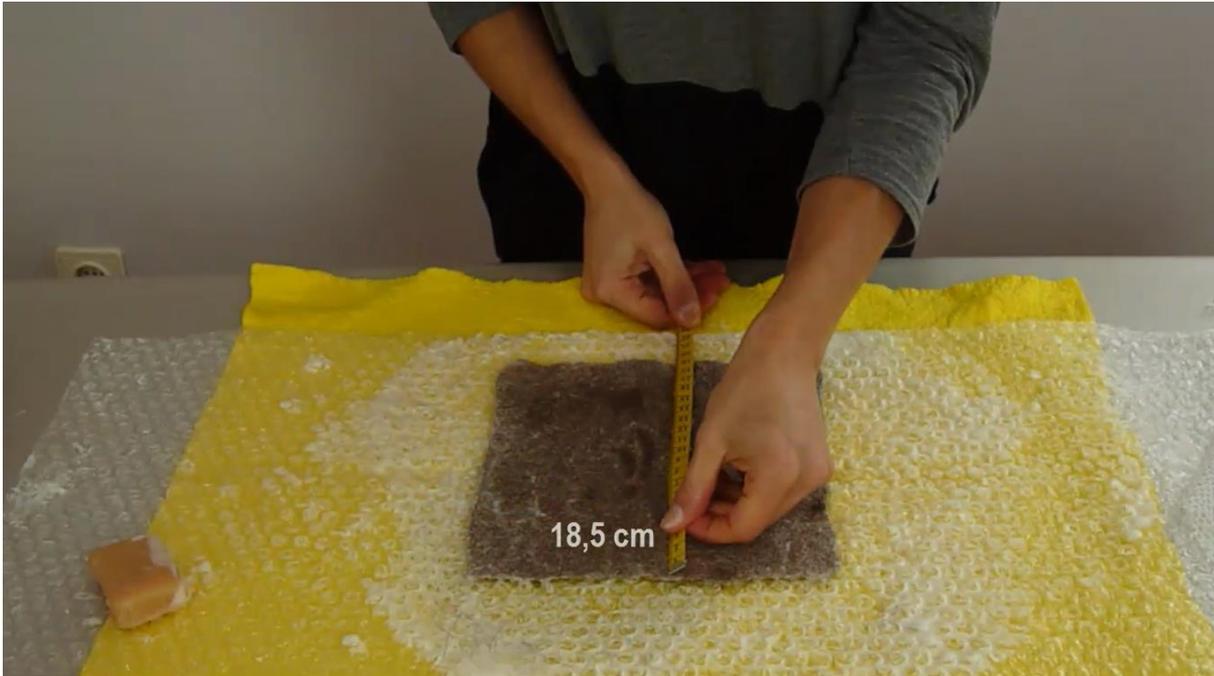
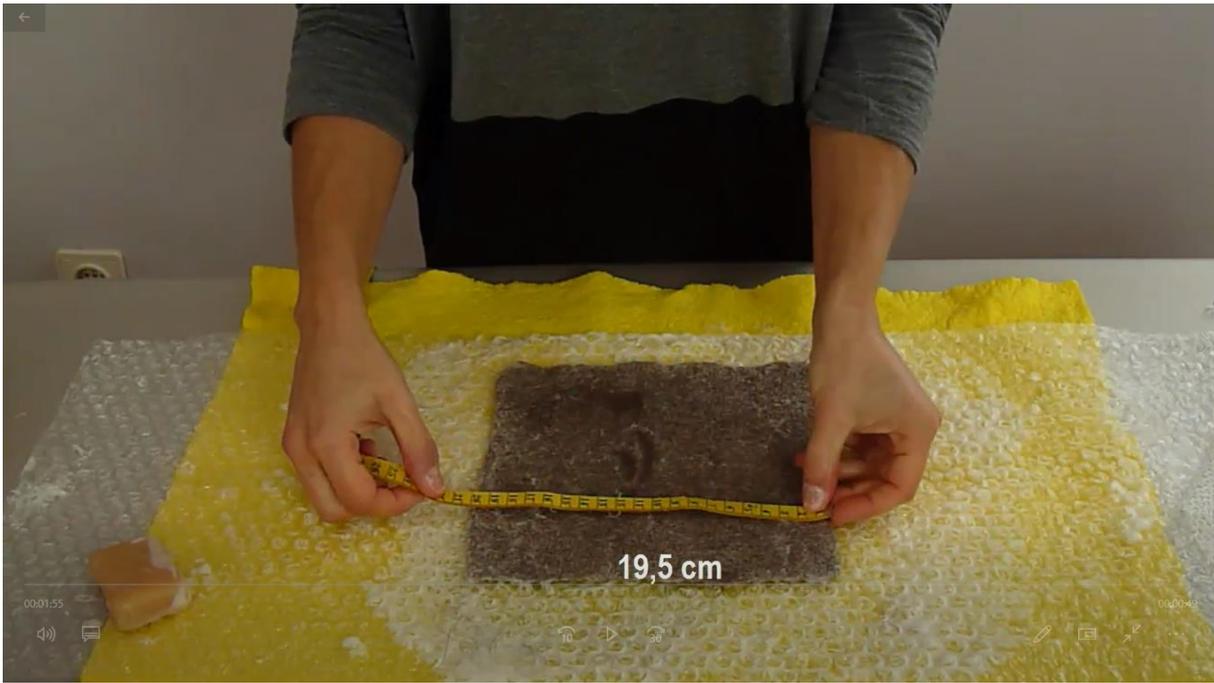


After this, I'll felt normally to the degree I want my hat to be felt. **Keep in mind your sample should be felted equally in all directions.**

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Now I'm done with the felting, I'll measure my sample again. And, based on the before and after measures, I determine the shrinkage of the piece.

We initially had 25cm x 24cm and after felting we got 19,5cm x 18,5cm. This means we need our resist to be approximately 30% bigger than the final piece. Now, when you make the resist for your project, you just have to add 30% to all your measures.

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If you're still having problems understanding how this works, here's a formula to help.

HOW TO CALCULATE THE SHRINKAGE RATE

Formula:

$(\text{Length or width}) \text{ Before felting} / (\text{Length or width}) \text{ After felting} = X$

Example:

Width = $25 / 19.5 = 1.28$

Length = $24 / 18.5 = 1.29$

If you're good at math, you'll understand the logic behind this formula. If math's not your thing, **just consider the number after the dot as the shrinkage rate**. So, if we round it up, we have a shrinkage rate of 30% in our example.

Now we know our shrinkage rate. But, based on that, how do we calculate the size of the resist?

Let's say we want to felt a piece with the final size of:

Width = 40 cm

Length = 30 cm

How big should the resist be?

Width = $40 \text{ cm} * 1.30 = 52 \text{ cm}$

Length = $30 \text{ cm} * 1.30 = 39 \text{ cm}$

(I've rounded up the numbers to 1.30)

Hope it all makes sense to you now 😊

Talk soon!

Vanda

P.S.: If you want to learn more about how to wet felt, check out the available tutorials [here](#).

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