

Reference Section

% Regain = $\frac{\text{Weight of water in the sample} \times 100}{\text{Oven dry weight of the sample}}$

% Moisture = $\frac{\text{Weight of water in the sample} \times 100}{\text{Original total weight of the sample}}$

Conversions between Moisture Content & Regain

To convert from moisture content to regain or vice versa, use the following equations (in which M = moisture content, R = regain):

$$M = \frac{100R}{100 + R} \quad \text{and} \quad R = \frac{100M}{100 - M}$$

Conventional recovery rate to be used in connection with the analysis of fibre mixtures as given in Annex II of the EEC Directive on textile descriptions.

Fibres	Percentages	Fibres	Percentages	Fibres	Percentages
Wool and hair:		Jute	17.00	Acrylic	2.00
combed fibres	18.25	Abaca	14.00	Chlorofibre	2.00
carded fibres	17.00	Alfa	14.00	Fluorofibre	0.00
Fur:		Coir	13.00	Modacrylic	2.00
combed fibres	18.25	Genista	14.00	Polyamide 6.6:	
carded fibres	17.00	Kenaf	17.00	discontinuous fibre	6.25
Hair:		Ramie		continuous filament	5.75
combed fibres	16.00	[White fibre]	8.50	Polyamide 6:	
carded fibres	15.00	Sisal	14.00	discontinuous fibre	6.25
Silk	11.00	Acetate	9.00	continuous filament	5.75
Cotton:		Alginate	20.00	Polyamide 11:	
normal fibres	8.50	Cupro	13.00	discontinuous fibre	3.50
mercerized fibres	10.50	Modal	13.00	continuous filament	3.50
Kapok	10.90	Proteinic	17.00	Polyester:	
Linen	12.00	Triacetate	7.00	discontinuous fibre	1.50
Hemp	12.00	Viscose	13.00	continuous filament	3.00

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Fibres	Percentages	Fibres	Percentages	Fibres	Percentages
Polyethylene	1.50	Trivinyll	3.00	[Continuous filament of a diameter equal to or less than 5µm]	3.00
Polypropylene	2.00	Elastodiene	1.00		
Polycarbamide	2.00	Elasthane	1.50		
Polyurethane:	3.50	Textile Glass:	2.00	Metal fibre	2.00
Discontinuous fibre		[Continuous filament of a diameter greater than 5µm]		Metallized fibre	2.00
Continuous filament				Asbestos	2.00
Vinylal	5.00			Paper thread	13.75

* In the EEC Directive the following definitions are given:

- Wool.** Fibre of sheep's fleece
- Alpaca, llama, camel, cashmere, mohair, angora, vicuna, yak, guanaco,** preceded or not by the word 'wool' or 'hair'. Hair of the following animals: alpaca, llama, camel, cashmere goat, angora goat, angora rabbit, vicuna, yak, guanaco.
- Fur or hair** with or without an indication of the animal species [for example, bovine hair, goat's hair, horse hair]. Hair of various animals other than those mentioned under 1 & 2.

***Note:** Mohair fibre is from an angora goat, "angora" is from an angora rabbit.