

## Agropelo Technical Sheet: Human hair padding

Agropelo\* is a padding made of human hair in the form of matt, generated by mechanical needle felting. It covers the soil to generate water savings in agriculture. It is a 100% natural product, compostable at the end of the process, it reduces the need for irrigation water, provides nitrogen to the soil and reduces plant care: keeping weeds and rabbits away from the main trunk.

We focus on offering a solution for agriculture in regions with water scarcity, with two main options: to be able to plant in arid areas, where there is currently no agricultural development, or to introduce strains with greater water needs in areas where today there is not much product differentiation. .

*\* It is a product made with human hair recovered from a network of hairdressers. It can be presented in different colors*

Description of Agropelo	
Width (cm)	60
Length (cm)	60
Weight (g)	780
Origin	
Chemical composition	100% human hair and fur
Density	94,6 kg/m <sup>3</sup>
pH	5,5
Fertilizers	naturally contains calcium, chloride, nitrogen, sodium
Resistance to rain erosion	High
Wind Erosion Resistance	High
Fire resistance	High
Durability	3 years

### Validated Benefits\*\*

- Decreases direct evaporation loss from the soil by 71%, generating water savings
- 15% more water available for the photosynthetic process of the plant, increasing production
- Prevents the development of weeds, reducing expenses in manual weeding and herbicides
- Up to 20% increased height growth
- Improves the size of the fruits
- Promotes early ripening of fruits

- **Allows the regeneration of the ecosystem of the soil: increasing the quantity and quality of organic matter**
- **Increases nitrogen in the soil**

**\*\* Case studies Roberto Mora and Vonn Castro, Calama, Atacama Desert, Chile**

### **Installation mode**

1. Hair matt is cut to the middle, using tailor's scissors
2. Cut is opened in order to introduce the stem(s) or trunk(s) of the plant(s)
3. Cutout is reattached and fastened with metal staples (sold separately)

If drip irrigation is used, Agropelo is installed as explained above

Once the installation is complete, the irrigation is fixed on the matts, securing it with metal staples, as shown in the photograph.



### **Our clients**

Medium-scale plantations crops with main trunk or stem, in a linear or scattered arrangement

Plantations that require creeping plastic lines such as strawberries, tomatoes or others

