



Commercial name

## PROPASEC GREEN

Company identification

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### 1. Description and application

PROPASEC GREEN is a desiccant bag containing natural clay for absorbing excess moisture and externally coated with biodegradable and compostable non-woven fabric.

### 2. Reference standards

The reference standards are as follows:

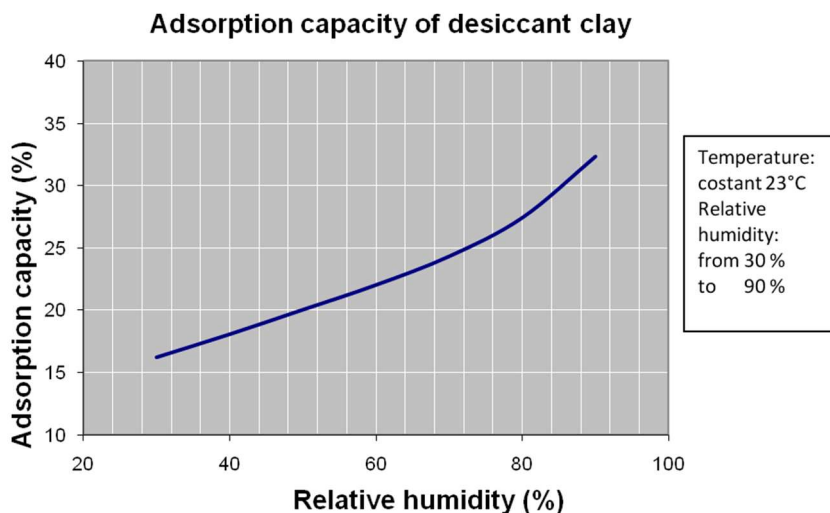
- DIN 55473
- MIL D 3464 E
- NFH00-321

### 3. Chemical and physical characteristics

#### 3.1 Definition of a dehydrating unit according to DIN 55473

A dehydrating unit defines the quantity of product that absorbs a minimum quantity of 6.0g of steam at an air temperature of  $23 \pm 2$  °C and with a 40% relative humidity.

#### 3.2 Adsorption curve





### 3.3 Dehydrating material

Calcium bentonite (montmorellonite - CAS-No. 1302-78-9 - EC-No. 215-108-5), commonly called clay, of natural origin and chemically inert, non-corrosive and mainly consisting of magnesium and calcium silicate aluminium.

Main chemical and physical characteristics (DIN 55473):

pH (10% solution)	3,5 - 8,5
Conductivity (10% solution)	< 0,3 S/m
Soluble Substance in water	≤ 2%
Granulometry	0,25 - 6,3 mm
Residual Moisture (120°C)	< 2%

### 3.4 Packaging material

Desiccant bag made with biodegradable, compostable and permeable non-woven fabric, that allows the absorption of water vapour inside the bag itself .

This non-woven fabric is conform with DIN 55473 Type A: dust proof (bags can release max. ≤10 mg dust each desiccant unit).

Aerobic biodegradability in a controlled composting condition has been evaluated by the CO2 method according to the UNI EN ISO 14855-2 standard.

The compostability was obtained in compliance with the UNI EN 13432: 2002 standard, subjecting to tests pieces of about 10 cm in size suitable for the composting process itself.

### 3.5 Approximate dimensions, weights and unit of measurement

DIN - MIL	NFH	Approximate net weight (1) (g)	Approximate size (mm)
-	1 UD	544	150x220
-	1/2 UD	283	150x160
4 TME	1/4 UD	142	95x150
2 TME	1/8 UD	71	95x140
1 TME	1/16 UD	36	70x130
1/2 TME	1/32 UD	18	70x100
1/3 TME	1/50 UD	12	70x85
1/6 TME	1/100 UD	6	40x85 55x85

(1) Clay with a mean absorption of 17% has been taken into consideration for calculating the approximate weight.

(2) TME = Trockenmitteleinheit

(3) UD = Desiccant units

### 3.6 Humidity indicator card

An 8% humidity indicator is placed in each packaging to check the quality of the desiccant bags.

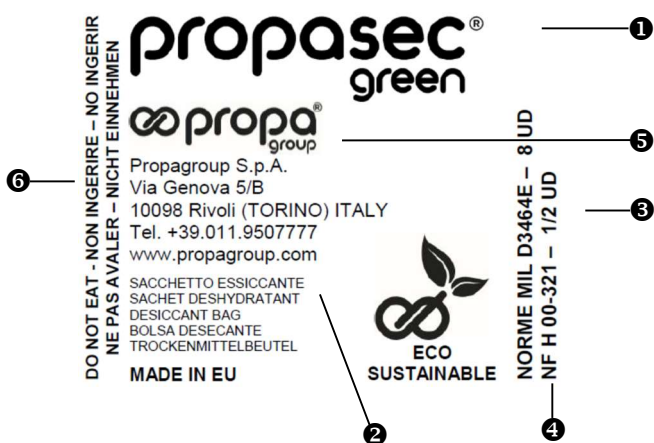


#### 4. Bag print

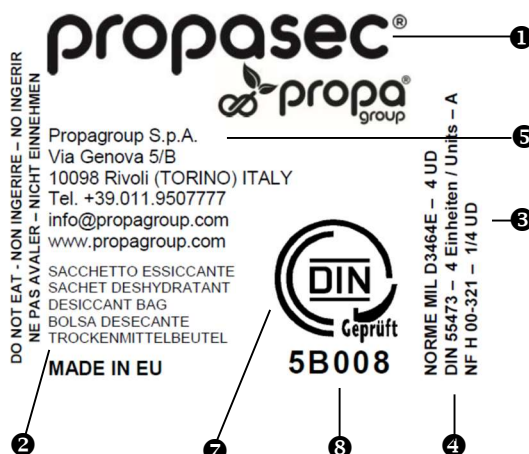
Each standard version bag has a legible, durable print, which contains the following information :

1. Commercial name
2. Bag name
3. Number of units
4. Indication of reference standards
5. Name and address of the producer
6. Any special requirements shall be specified
7. Next to indication of origin: “DIN-Geprüft” (DIN approved) mark with registration number.
8. DIN identification.

##### MIL and NFH standard print



##### MIL, NFH and DIN standard print



#### 5. Packing

##### 5.1 Type S36 (Standard)

- Europallet 1200x800 mm.
- 36 cartons per pallet (4 levels \* 9 cartons per level).
- Maximum height of pallet 1860 mm. (*pallet included*).
- Cartons measuring 390x260x420 H mm.
- Inner bag 440+170+170x900 mm. HDPE 90 micron



### 5.2 Dehydrating bags per carton

DIN-MIL unit	-	-	4	2	1	1/2	1/3	1/6
NFH unit	1	1/2	1/4	1/8	1/16	1/32	1/50	1/100
<b>Carton quantity</b>	<b>40</b>	<b>80</b>	<b>150</b>	<b>200</b>	<b>300</b>	<b>600</b>	<b>1000</b>	<b>2000</b>

### 5.3 Group packaging / carton quantity for DIN productions

DIN unit	4	2	1	1/2	1/3	1/6
<b>Group packaging quantity</b>	<b>15</b>	<b>30</b>	<b>50</b>	<b>60</b>	<b>80</b>	<b>100</b>
<b>Carton quantity</b>	<b>105</b>	<b>210</b>	<b>300</b>	<b>600</b>	<b>800</b>	<b>1200</b>

For DIN standard productions, quantities different from those in the table must be agreed with us and expressly indicated when placing the order.

## 6. Shelf life

The shelf life of the Propasec Green is maximum 24 months from the date of production if kept inside the original packaging, perfectly sealed, in a dry place and not directly exposed to the sunlight.

Before using of the desiccant bags, it's always necessary to check the indication shown on the humidity indicator cards placed in each box (blue= desiccant bags active / pink= desiccant bags not active).

## 7. Production and Quality

PROPAGROUP is UNI EN ISO9001 / ISO14001 certified and produces in accordance with the requirements of the main European and international standards in the sector.

The values indicated here are the result of standardised lab tests and meant only as an indication to help select and use the products. The user is responsible for ensuring the suitability and completeness of such information in relation to how the product is to be used.

**Written by:** Technical Management

**Revised by:** Quality Department

**Approved by:** Management