



FURUKAWA SANGYO KAISHA (THAILAND) LTD.

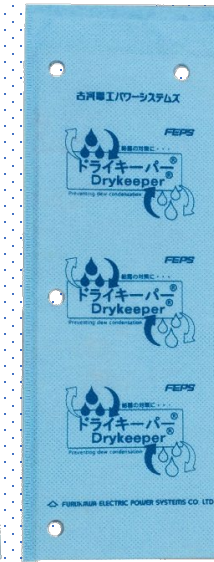
# Anti-Condensation Sheet “Drykeeper”



Business card size  
(50×100mm)



A5 size  
(150×210mm)



A5L size  
(105×300mm)

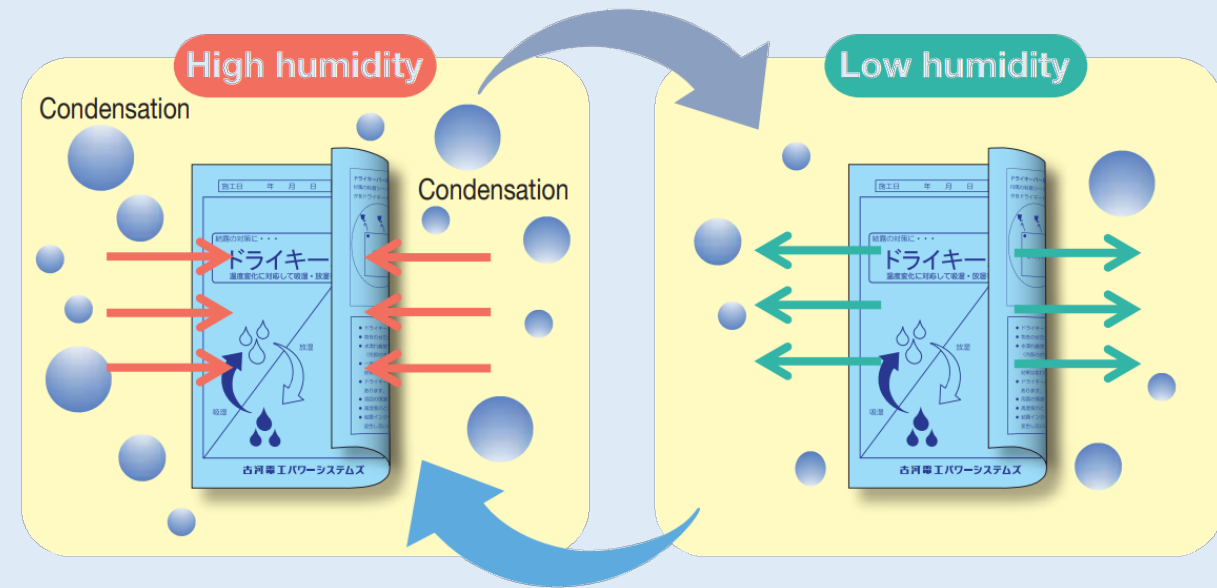


A4 size  
(210×300mm)

# Introduction



Drykeeper is a moisture-absorbing sheet made from synthetic rubber and a super absorbent polymer. It is **halogen-free** and environmentally friendly. Traditional moisture absorption products like a silica Gel pellet or powder can be saturated after several days/weeks. On the other hand, Drykeeper will not have saturation because the material of Drykeeper will “**breathe**”.



# Drykeeper



This product helps a customer to achieve maintenance-free against condensation for about **5 years** based on various conditions.

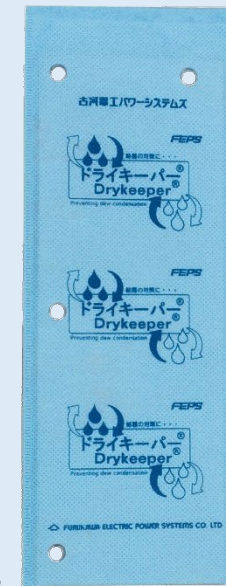
Size



Business card size  
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A4 size  
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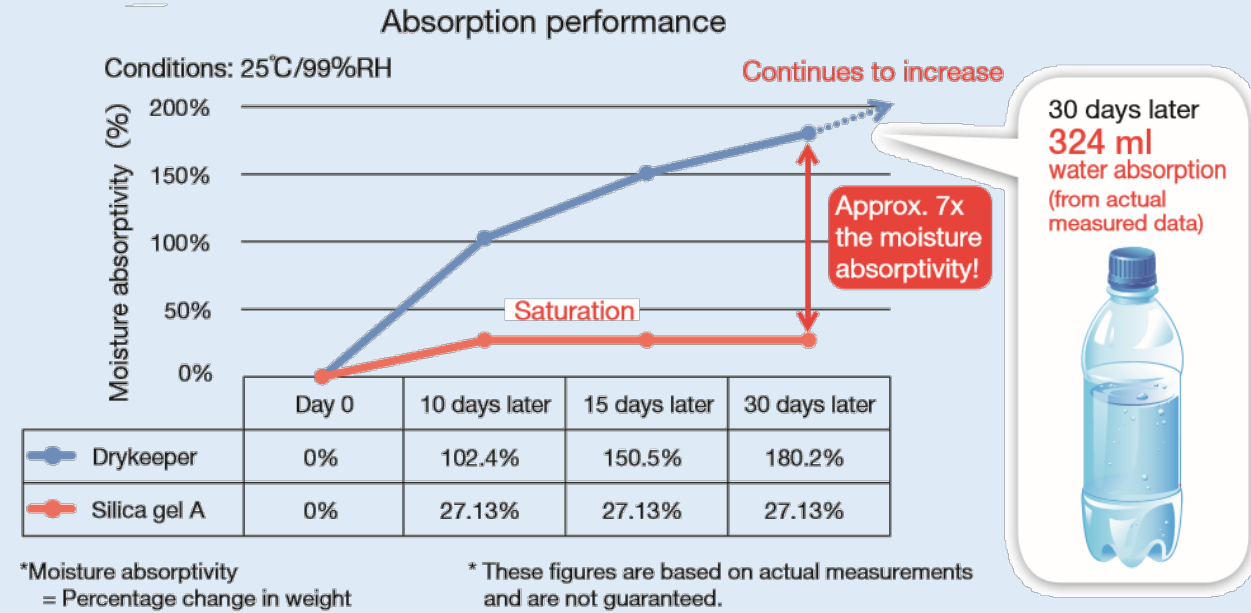
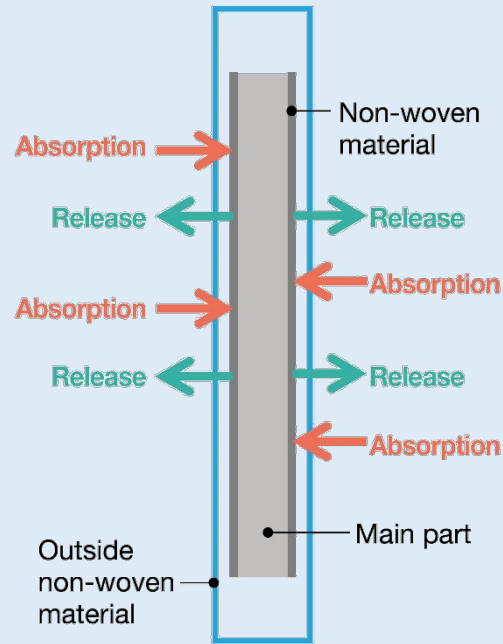


Drykeeper

There are 4 sizes to be suitable for various project sites.

And the thickness is just 2mm, so it will not be an obstacle for the equipment even if Drykeeper is installed on several walls/surfaces.

No saturation



30 days later  
**324 ml**  
 water absorption  
 (from actual  
 measured data)



Before installing



After installing (No dewdrops)



Drykeeper

Silica gel is easy to be saturated after several days. On the other hand, the capacity of a Drykeeper is approx. 7 times than Silica gel.

Then, Drykeeper absorbs moisture at high humidity and releases moisture at low humidity. So, it will not be saturated.

We can calculate easily how many Drykeeper it requires if we can know the dimension of the box/enclosure and the condition of temperature and humidity.

Long-life



Drykeeper is designed based on the requests of our customers.

One of the most troublesome actions against condensation is to replace anti-condensations material. Drykeeper does not require a customer to replace it frequently.

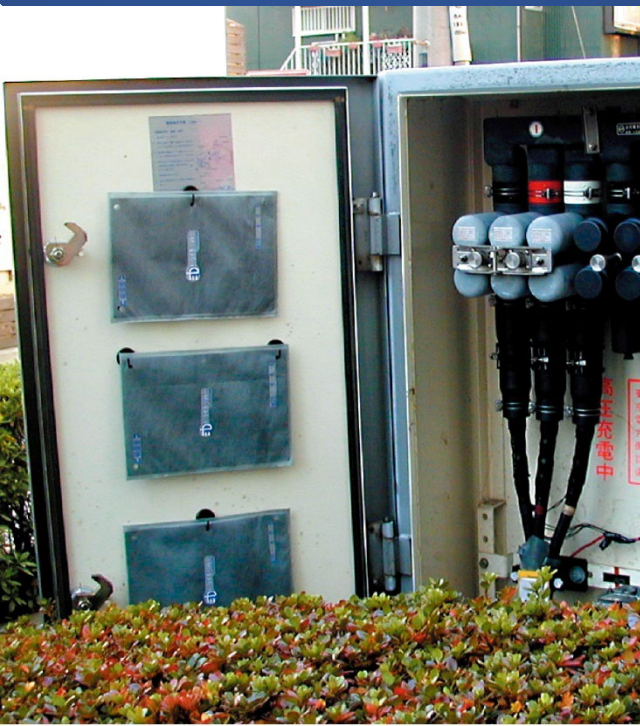
**<Maintenance-free>**

**No need to change for an average of 5 years**

Plus, Drykeeper can be used under severe conditions.

**<Allowable temperature>**

**- 30 to + 90 Celsius degree**

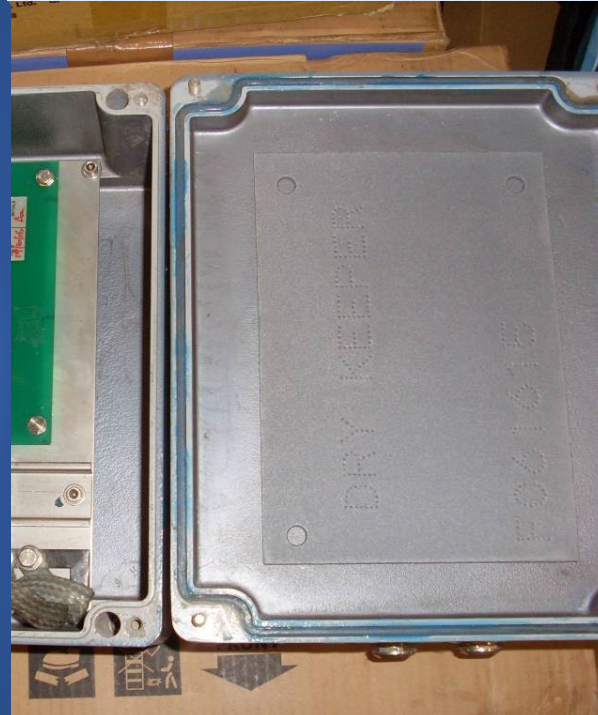


Drykeeper



Area of heavy snowfall

# Flame Retardant Drykeeper FR

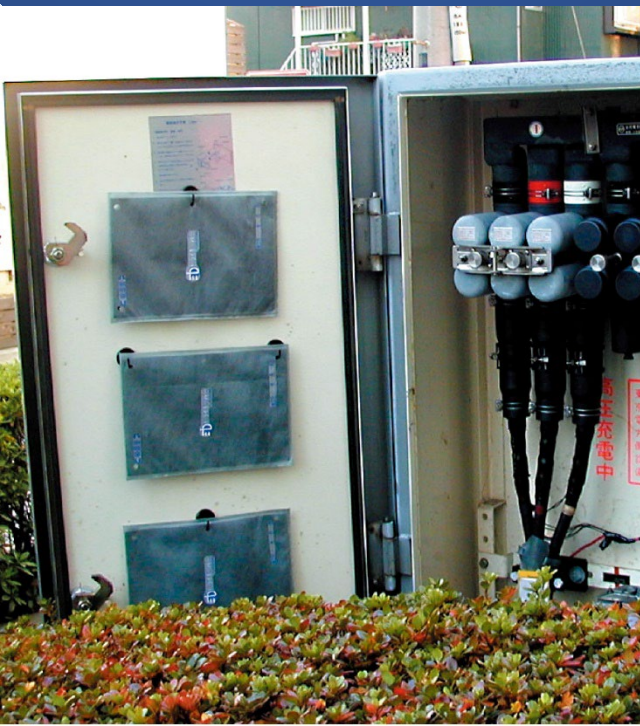


Drykeeper has the flame retardant grade called “**Drykeeper FR**”. **Dry Keeper FR** is based on the original performance of Drykeeper, and it obtains the **UL94/V-0** grade certificate.

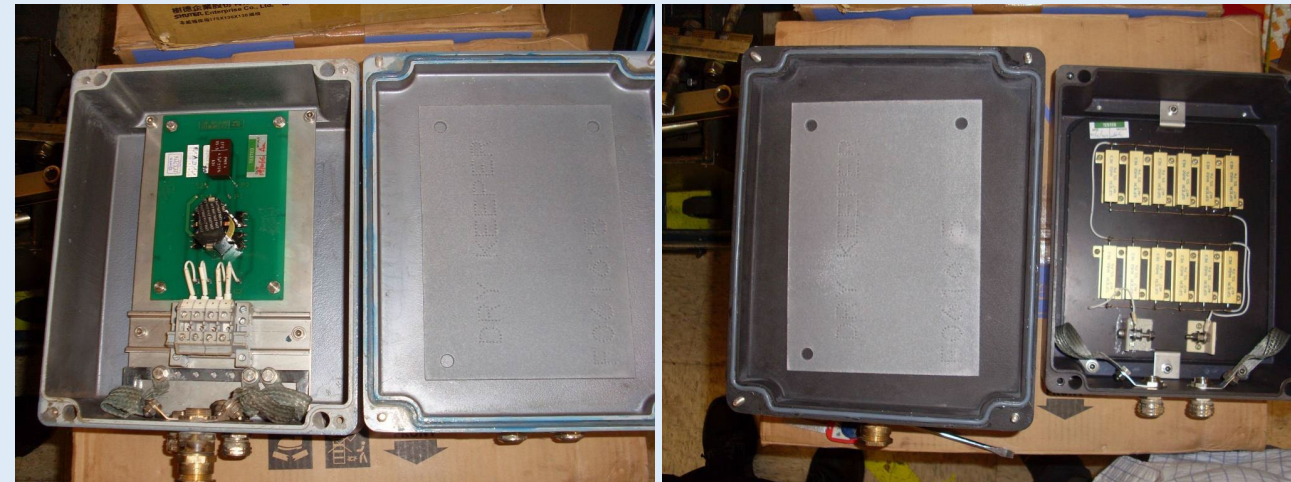
Certificate No. : UL94V0 File No. E210580

<i>Drykeeper FR</i> Custom Size	Thickneth (mm)	Width (mm)	Length (mm)	Weight (g)	PCS/BOX
	2.2	20, 40, 50, 100	25, 30~300(10 step)	Approximately 0.32g/cm <sup>2</sup>	According to size

Enclosure for a rolling stock



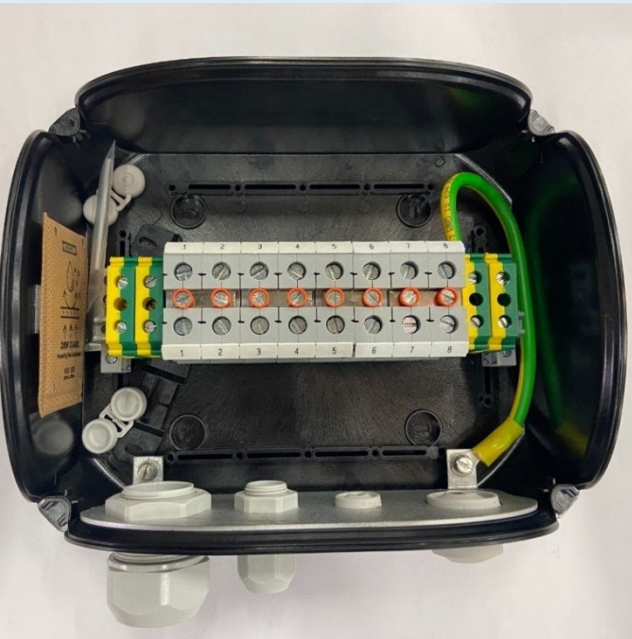
UL 94/V-0



# Installations



- ✓ For plastic enclosures, the IP rate of most of the high-end models is more than IP65 or IP 66. It means it is high airtight.
- ✓ If it is high airtight, condensation can happen easily if the condition of the site has the difference between the highest temperature and lowest temperature.
- ✓ There is a countermeasure for condensation like ventilation but it is impossible to keep a high IP rate if the ventilation is installed.
- ✓ In addition, a heater is not suitable for plastic enclosures because it is made from plastic.
- ✓ To solve all problems of condensation in a plastic enclosure, Drykeeper is the best product.



# Plastic Enclosures

# Installations



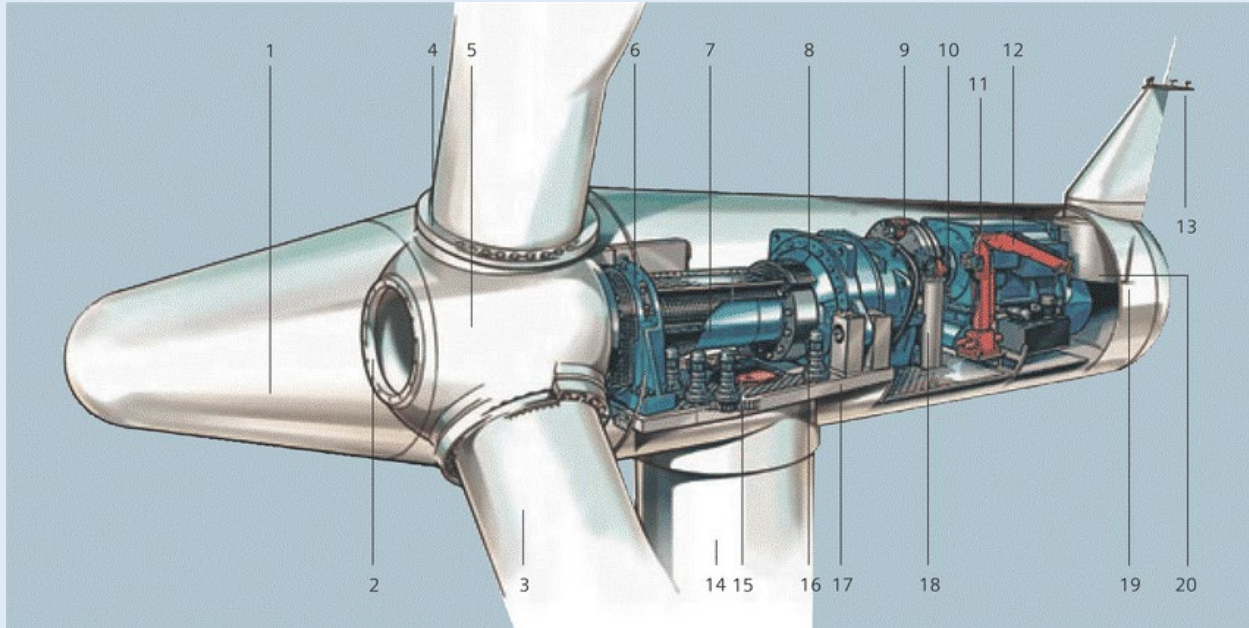
## Backup of heater

- ✓ An Outdoor High-Voltage Power Receiving Equipment like switchgear has a high IP rate like IP65 or 66.
- ✓ The equipment usually has a heater as an anti-condensation countermeasure.
- ✓ But sometimes, a short blackout happens. After that, the temperature inside of the equipment will be down rapidly, which means, condensation can happen easily.
- ✓ So, many customers use Drykeeper as a backup of heaters of the equipment.

# Installations



## Difficulties for maintenance



- ✓ Nacelle (wind turbine)
- ✓ Offshore Plant
- ✓ Solar power plant
- ✓ Enclosure of Rolling stock