

for Gravure printing

It's possible, Humidify Gravure printing.

Static charge control is an unavoidable theme for Gravure printing, coater and laminater. AKIMist®"E" can keep humidity and reduce static charge in large air exhaust factories.



AKIMist®"E"

Actual effects in our customers:

- **Reduce defective printing**

In the winter season, defects in printing (such as dust sticking, white streaking, and linear smudge of ink) are 2-5 times more likely to happen than other seasons. The main cause of these problems is static charge on plastic film due to low humidity, AKIMist®"E" can keep humidity elevated and reduce the static charge.

- **Prevent fire**

Humidity can release static charge from plastic film and prevent static sparks from forming, AKIMist®"E" can keep humidity between roll units by spraying directly into the desired space.

- **Rational countermeasure by "spot humidification"**

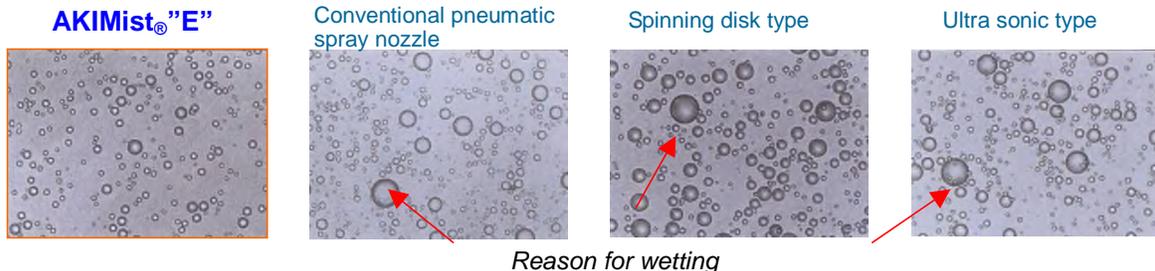
Whole area humidification in gravure printing is unrealistic because it needs a huge amount of water by the large ventilation— however, "spot humidification" aims towards each roll unit is the best and most cost-effective way to humidify.

How humidifiers are used

As gravure printing exhausts large amount of air, it makes very difficult to keep humidity in a factory. The dry fog humidifier- **AKIMist®"E"** can be installed very close to the target, so it can humidify without wetting the space. In the case of gravure printing, we suggest installing **AKIMist®"E"** at the feeding unit, the space between each roll unit and the winding unit.

Dry Fog humidifier AKIMist®"E"

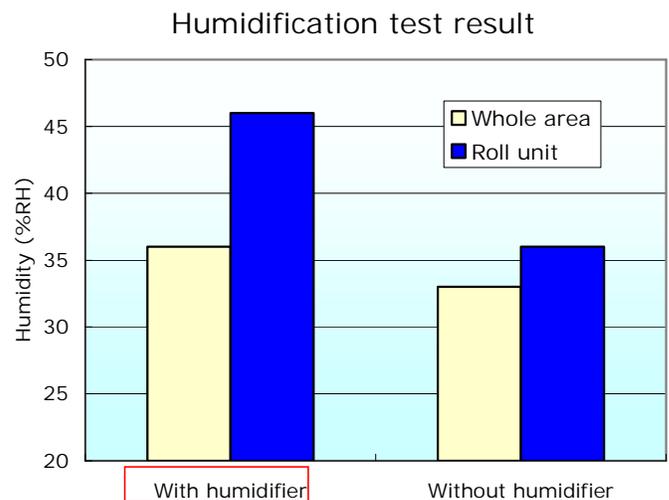
1. What is "Dry Fog"?



Normally, if you install humidifiers close to the object, it will get wet- and if you install the humidifier far from the machine, humidity will not reach the desired point. However, AKIMist®"E" sprays **Dry Fog**, which is a very uniformed fine mist (sauter mean droplet diameter 7.5µm), that can be sprayed close to the object and supply **stable humidity where needed without wetting**.

2. Powerful performance

Static charge troubles increase substantially in lower humidity than 45%RH(20°C)
- It depends on air exhaust amount however, generally, one **AKIMist®"E"** can raise humidity about 10% between roll units.



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