

TECHNICAL INFORMATION

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Deodorant (concentrated product)

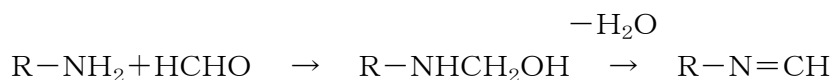
Airlence F C – H25A

■ Feature

Airlence FC-H25A is a deodorant that mainly uses aldehydes as an aqueous solution containing a plant extract component as a main ingredient, amino acid, urea, inorganic salt, etc., and also can cope with four odors.

- 1) This deodorant exerts excellent deodorizing performance of aldehydes due to the synergistic effect of plant extract ingredients (polyphenols) and urea and amino acids.
- 2) The functional group (NH₂: amino group) of amino acid and urea reacts with aldehydes (Shiff reaction) and becomes odorless.

*Reaction (Shiff reaction) of formaldehyde (HCHO) with amino group (NH₂)



- 3) This deodorant corresponds not only to aldehydes but also to the four odors.
- 4) It is composed of a high safety component.

■ Behavior

- ◇ Component : Plant extract, Amino acid, Urea, Inorganic salt, Pure water
- ◇ Appearance : Colorless clear liquid
- ◇ Odor : Slight odor
- ◇ Specific gravity : 1.172 ± 0.05 (25°C)
- ◇ pH : 6.8 ± 1.0 (25°C)

■ Use : Reduce target gas by adding about 3% of stock solution to resin such as polyol.
In addition, when clogging of the filter etc., another grade (FC-H25B) is used.

■ Deodorant performance : The deodorant performance results for acetaldehyde and formaldehyde

1) Test method

400 μl of a 25-fold diluted deodorant was added dropwise to a filter paper of 45cm², immediately placed in a 1L glass container, further injected with a constant concentration of malodorous components, sealed immediately, and the residual gas concentration after 60 minutes was measured with a detection tube.

2) Test results

Specimen	Malodorous substances residual gas concentration (ppm)	
	Acetaldehyde	Formaldehyde
Blank	150	90
Filter paper only	110	25
FC-H25A (25-fold dilution)	0	5