TECHNICAL INFORMATION

NIHON CHEMTREX CO.,LTD

〒174-0043 13-39-1 SAKASHITA ITABASHI-KU TOKYO JAPAN

TEL:(03)3430-1139

Deodorant (concentrated product)

Airclence F C－H25A

■Feature

Airclence FC-H25A is a deodolant 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 (NH_2: amino group) of amino acid and urea reacts with aldehydes (Shiff reaction) and becomes odorless.

＊Reaction (Shiff reaction) of formaldehyde (HCHO) with amino group (NH_2)

$$R-NH_2+HCHO \rightarrow R-NHCH_2OH \xrightarrow{-H_2O} R-N=CH$$

3) This deodorant corresponds not only to aldehydes but also to the four ordors.

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℃)

◇ pH : 6.8 ± 1.0 (25℃)

■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

400μl of a 25-fold diluted deodorant was added dropwise to a filter paper of 45c㎡, immediately placed in a 1L glass container, further injected with a constant concentration of malodorous components, seald 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