

Technical Specification Data Sheet

According to GB/T 16483 and GB/T 17519

5-Aminotetrazole (5-AT)

Product Name: 5-Aminotetrazole **CAS No. :**4418-61-5

Formula : CH₃N₅

Molecular Weight: 85.07 g/mol

2405 Version

一、 Performance & Application

Specially used as a corrosion inhibitor for metal copper and copper alloys in the semiconductor, microelectronics, display and printed circuit board industries, and also has corrosion inhibition effect on ferrous metals. Copper corrosion inhibitor 5-AT is adsorbed on the surface of copper to form a thin film, thereby protecting and controlling the etching and corrosion of copper surface treatment process.

二、 Technical Data

Items	Spec
Appearance (Color)	White crystal
Purity (HPLC)	>99.5%
Fusing Point (°C)	203-205°C
Moisture Content (%)	<0.5%

Metal Content Index (ICP-OES)

Metallic Element	Data
Fe	<5 ppm
Zn	<1 ppm
Mn	<1 ppm
Mg	<3ppm
Pb	<1 ppm
Cr	<1 ppm
Cu	<1 ppm
Ni	<1 ppm
Ca	<6 ppm

Al	<2 ppm
Ba	<50 ppm
Na	<150 ppm

三、 Usage

5-AT is dissolved in alcohol or weak acid and added to the etching solution or cleaning solution. The concentration of this product in the system is recommended to be 0.2-20mg /L, and the amount of addition is adjusted according to the specific use.

四、 Packing & Storage

5-AT is packed in composite plastic woven bags, each bag net weight 25kg, beware of moisture, high temperature and sunlight, storage period of 12 months.