

Triazine carbonaceous agent AKnoka[®] CF610

I. Product Introduction

As the core carbon component of halogen-free intumescent flame retardants (IFR), AKnoka[®] CF610 is widely applied in various high-end fields due to its unique chemical structure and synergistic mechanism. This material provides reliable fire-resistant protection while aligning with global green development trends, making it an optimal alternative to traditional flame-retardant materials.

General characteristic

Surface	White powder
Molecular formula	/
Cas number	/
Formula weight	/
Water-solubility	/

Key indicators

Project	Unit	Numeric value
Nitrogen content	%	≥50
Moisture Content	%	≤0.5
Bulk density	g/cm ³	0.4-0.6
Decomposition temperature	°C	≥305
Particle size (D50)	μm	≤5

II. Product Features

This product integrates flame retardancy performance, processing compatibility, and environmental safety, featuring core characteristics such as efficient carbon formation for flame retardancy and smoke suppression, excellent thermal stability, halogen-free compliance with environmental regulations, and broad compatibility.

III. Application Fields

Char-forming agents are primarily used as core components in flame-retardant systems across various industries including electronics, automotive materials, construction materials, cables, coatings, and sealants to enhance material carbonization, thermal insulation, and fire resistance properties.

IV. Storage and Packaging

Packaging: Each bag has a net weight of 25 kg and is constructed with a three-layer composite paper bag lined with polyethylene (PE).

Storage: Store in a cool, dry place.

V. Safety and Environmental Protection

The Material Safety Data Sheet (MSDS) for this product may be obtained from our company upon request. The MSDS provides information on material handling, safety precautions, disposal requirements, and applicable local health and safety regulations. This product complies with EU RoHS/REACH regulations. According to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), this product is not classified as hazardous.

VI. Remarks:

The information and data provided in this document are for reference purposes only, based on our current technical expertise and experience. Customers must conduct tests on purchased products to verify their suitability for specific processes or applications and ensure compliance with intended objectives. We cannot control further applications or processing procedures of the products. Our liability is limited to the delivered products you use and does not cover any indirect losses arising from their use. Our technical support and customer service teams are available to provide product consultation and application assistance. Please feel free to contact us via email or phone.