



Technical Description Sheet Melamine Cyanurate MCA-15S

Introduction:

MCA-15S is a kind of high effective nitrogen halogen free flame retardant. It is very stable when the temperature is lower than 300°C. However, sublimation will happen when the temperature is above 350°C. MCA-15S is in high content of nitrogen, and it will dehydrate to carbon while in high temperature, and it will also release N₂, CO₂ and water while burning.

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Test Item	Unit	Target Value	DS ¹⁾	TD ²⁾
Appearance	—	White Powder	☑	○
Molecular Formula/Molecular Weight	—	C ₆ H ₉ N ₉ O ₃ /255.2	○	☑
MCA Content	% (w/w)	≥99.5	○	☑
Density	g/cm ³	~1.7	○	☑
Bulk Density	g/L	~280	○	☑
Water Content	% (w/w)	≤0.4	☑	○
Particle Size	μm	D ₅₀ ~3, D ₉₈ ~20	☑	○
pH Value	—	5.0~7.0	☑	○
Whiteness	% (w/w)	95~100	☑	○
Water Solubility	% (w/w)	≤0.1	○	☑

Note:

- 1) DS (Delivery specification): The product is monitored on a regular basis to ensure that it adheres to the specified values.
- 2) TD (Technical data): The technical data are used solely to describe the product and are not subject to regular monitoring, as a sampling item only.
- 3) ☑ means selected.

Applications:

It can be used as flame retardant in plastics.

Package & Storage:

15kg/package. Transported as the common chemicals. Keep in dry, cool place and avoid direct sunlight.