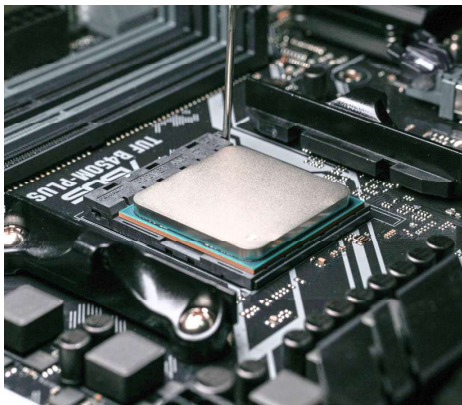


MELAMINE CYANURATE (MCA)

MCA is an environmentally friendly, advanced, non-halogenated flame retardant mainly for polyamide 6, polyamide 66, glass fiber reinforced polyamide and additionally polyurethane foam, unsaturated polyester, epoxy resin and rubber applications.

- MCA decomposes and releases incombustible N₂, CO₂ and H₂O gases in high temperature and dilute oxygen gas in the atmosphere. This process absorbs a large quantity of heat and retards burning.
- A nylon compound with MCA can achieve UL94 V-0 rating when it is unfilled nor mineral filled; however, for glass fiber or mineral filled systems, better than UL94 V-2 ratings can be obtained only with use of other synergists.
- MCA may accelerate char-forming.
- Superior performance compared to other flame retardants.
- Halogen free, lower smoke density, low smoke toxicity and less corrosion.
- Better electrical and mechanical properties.
- Good thermal stability, excellent dispersibility.



Product Form



Powder

Resin / Material
as Carrier

MCA

PA	● ● ●
PBT	○
PP	○
PE	○
PVC	
PU	○
TPE	● ●
Epoxy	○
Acrylic	○
Rubber	○
Paper / Wood	

Chemical and Physical Properties

Appearance (Color)	White	Excess cyanuric acid [%]	max 0.2
Weight Loss [%, at 305°C]	max 1	Excess melamine [%]	< 0.1
Melamine Cyanurate Content [%]	min 99.5	Density [g/cm ³]	1.6 - 1.8
Particle size [d50, micron]	max 2	pH value [10% suspension]	5.5 - 7.5
Water Content [%]	max 0.4	Whiteness Index [Hunter]	min 95