

## MELAMINE BORATE (MB 301, decomposition point is 150°C)

Halogen free retardants for polymers

### PRODUCT BRIEF

MB 301 is a halogen free retardant, boric acid and melamine compound. It is a white, water-soluble powder with a decomposition point of 150 °C. Its application in the production of polymers is limited due to its physical and chemical properties.

### APPLICATIONS

Boracium, Nitrogen and Carbon mixture enables an effective use as a fireproof dope in intumescent and as a backbone in the textile industry, primers, and water-based paints. In addition, melamine borate is used in intumescent epoxy coatings, as well as for cotton and felt impregnation. The product is used in conjunction with other retardants as a synergic mixture.

### DOSAGE

In fabric and paper impregnations – 10–15% of MB combined with ammonium polyphosphate, mass ratio is 1:1.

### SPECIFICATIONS

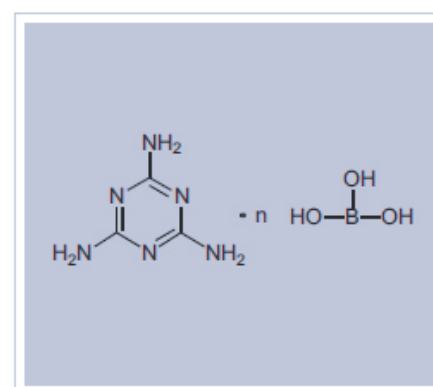
Particle size, µm	up to 40
Filtrate's pH, 10% of suspension	5,0-7,0
Decomposition point, °C	150
Water solubility at 20 °C, g/100ml	10-50
Boracium content, %	6,0-8,0

### CHEMICAL SAFETY DATA SHEET

According to GOST 12.1.007 the product is a low hazardous substance (4<sup>th</sup> category).  
 May be harmful if swallowed.

Producer: Novochem LLC (Tomsk)  
 Melamine borate (MB 301), Specifications 20.14.52.110-034-67017122-2019

### Structural formula



Molecular formula:  
 $(C_3H_8N_6)_n H_3BO_3$