SULFAMET

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TECHNICAL DATA SHEET

Name of product	Zinc borate 223
Molecular formula:	2ZnO.2B ₂ O ₃ .3H ₂ O
Class No.:	Flame retardant
Item (%)	Standard (%)
Whiteness	97
Surface water %<	0.5
ZnO %	44.0-48.0
B ₂ O ₃ %	35.5-40.0
H ₂ O (hydrate) %	13.0-18.0
Particle size, um	7-12
Fineness(Residue	0.1
on 45um sieve) % <	
Specific gravity,	2.85
g/cm ³	
Melting point °C	980
temp, of	200
dehydration °C >	
Refractive index	1.58
CAS NO.	1332-07-6

Introduction

Zinc Borate is one environmental-friendly halogen-free flame retardant. There are some formulations of $xZnO.yB_2O_3.zH_2O$, in which Zinc Borate with 3 hydrate is called ZB-223 (2ZnO.2B₂O₃3H₂O). It has owned some excellent properties on non-toxicity, slight solubility in water, good thermal stability, fine particle size, low specific gravity etc.

Applications

ZB-223 is a good flame retardant synergist and smoke suppressant in halogenated polymers to partially replace Antimony Oxide, and can be used in certain applications as afterglow suppressant and anti-arcing agent. Due to its high Zinc content, ZB-223 is mainly recommended for PVC, EVA etc and also has applications in polyolefin, polyurethanes, thermoplastic elastomers and rubbers.

Package

Packed and transported as normal chemical goods. Standard package is 25 kg/bag.