

## GC PP HF 200

### HALOGEN FREE FLAME RETARDANT

GC PP HF 200 is a flame retardant based on phosphorus and Nitrogen, free of halogens and antimony. Fire retardant properties are based on an intumescent system. GC PP HF 200 application results in compounds with delayed flame propagation and is used in PP homopolymers and copolymers, PP modified with elastomers, all density PE and other thermoplastic elastomers olefins. GC PP HF 200 has many advantages: high thermal stability, low alteration of the physical-chemical properties of compounds and excellent processability in extrusion and injection molding. GC PP HF 200 formulation is free of corrosion problems, due to the absence of halogenated components.

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#### PHYSICAL-CHEMICAL PROPERTIES

Appearance	White powder		
P content, % (w/w)	20 ± 0.5		
N content, % (w/w)	22 ± 1.0		
Bulk Density g/cm <sup>3</sup>	~0.790		
Water content, %	max 0.5		
Average particle size, D <sub>50</sub> µm	~10		
TGA (10 mg @ 10°C/min under N <sub>2</sub> )	<u>Weight Loss</u>	1 %	5 %
	Temperature	280°C	290°C

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#### HANDLING AND STORAGE:

The processing and use of GC PP HF 200 requires adequate technical and professional knowledge. Please consult safety data sheet for further handling, storage and toxicity information.

GC PP HF 200 has to be stored in tightly sealed original container in a cool and well-ventilated area, away from direct sunlight.

#### PACKAGING:

Standard packaging size of GC PP HF 200 is 25 Kg in plastic bags in boxes.

#### IMPORTANT NOTE

Some plastic additives, fillers or pigments can significantly influence the flame retardant properties of the compound. Before using these products, please be informed.

Machine stop at high temperatures could create degradation of polymers. Please clean with neutral polymers.

#### DISCLAIMER:

Information contained in this document is provided to the best of our knowledge and is considered true as per revision date. We do not accept any liability for loss and damage that may occur from the improper use of this information and for the use against the safety legal requirements and patent rights. This specification does not release the customer from the obligation to check the product as to its suitability for intended area of usage.