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# Dry Chemicals and Dry Powders

## Purple K (PK) Dry Chemical Powder

### DESCRIPTION

Chemguard "PK", Potassium Bicarbonate Based dry chemical, is a premium powder suitable for use in high risk areas such as: refineries, chemical plants and airfields where superior fire extinguishing capabilities are of paramount importance. It is suitable for use on either Class B or C type fires. During the exclusive Chemguard manufacturing process, PK is treated with flow promoting and moisture repellent additives and checked for particle size. This special process and the quality control system ensures that the purchaser receives a powder that is cost efficient with maximum fire extinguishing performance, long term storage stability and is suitable for use as a recharge agent in most manufacturers' fire extinguishers that utilize potassium bicarbonate based dry chemical powder. Airports have recognized the capability of PK and use it extensively in twin agent fire extinguishing systems. It is also used in large PK dry chemical fixed systems covering LNG pumping stations. PK is normally purple in color.

### EXTINGUISHING MECHANISM

When PK dry chemical powder is used on fires involving flammable liquids, it is generally accepted that when the powder is introduced directly into the fire area, it extinguishes the fire by interfering with the chemical chain reaction taking place in the combustion zone.

### FOAM COMPATIBILITY

All Chemguard dry chemical powders are considered foam compatible when used in conjunction with foam solutions generated by Chemguard manufactured foam concentrates such as AFFF, AR-AFFF, High Expansion, Training and Class A Plus.

### STORAGE

Chemguard dry chemical powders are formulated so that they are not affected by long term storage. As a general guide all Chemguard powders are stable at low temperatures down to -60° F (-54° C), with an upper storage limit of 120° F (49° C).

### CAUTION

Never mix bicarbonate based dry chemical powders with monoammonium phosphate based powders in any fire extinguisher due to a chemical reaction which may occur.

### PACKAGING

Chemguard "PK" dry chemical powder is supplied in 50 lb. plastic pails or 50 lb. plastic lined boxes. 2,000 lb. bulk bag (super sacks) or 400 lb. Drums are available on request.

### ORDERING INFORMATION

Part No	Description	
PB1003	PK powder in	50 lb. Box
PP1003	PK powder in	50 lb. Pail
PD1003	PK powder in	400 lb. Drum
PBB1003	PK powder in	2,000 lb. B/Bag

Custom formulations including variations in the potassium bicarbonate content of the PK dry chemical are available upon request.