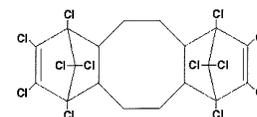




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## FIRE RETARDANTS

### Akrochem CFR-25 Flame Retardant



#### PRODUCT DESCRIPTION:

CFR-25 flame retardant additive are is effective, chlorine containing crystalline organic compound, ground to free flowing, white powders. The CFR-25 additive is used as non-plasticizing flame retardant in polymeric systems. CFR-25 additive is combined with antimony oxide (Sb<sub>2</sub>O<sub>3</sub>), but in some applications it can be used with other flame retardants. **CFR-25 generates 95% less smoke than commercial bromine-based additives.**

#### TYPICAL PROPERTIES:

#### CFR-25

Appearance.....	white powder
Molecular weight .....	654
Chlorine, % .....	65.1
Density, g/cc.....	1.8
Bulk Density, lb/ft <sup>3</sup> .....	38-42
Melt Point, C.....	350
Density, g/cc.....	1.8
Average Particle Size, microns .....	5 max
pH(methanol-water extract) .....	6.0-8.0
Volatility, (4 hrs@100C @5mm Hg).....	0.12% max

#### APPLICATIONS:

CFR-25 is used in adhesives, resins, coatings, roofing, wire and cable insulation, electrical/electronic components and other industrial goods applications requiring flame resistance. CFR-25 can be used with polymers such as NR, SBR, CR, EPDM, CSM, EVA, PE, PU, HIPS and polyolefins. CFR-25 typical loading is 5-50 phr depending on the type of compound and application. Using 20-25 phrs of CFR-25/ 5 phr antimony oxide in a wire cable application has been successful in producing lower smoke generation. CFR-25 is excellent flame retardant for EPDM. A usage of 20-40 phr with antimony oxide can significantly reduce smoke generation.

#### CFR-25 levels in other polymer systems:

- Chlorosulfonated Polyethylene – 5-10 phr
- Polychloroprene – 5-10 phr
- Natural rubber – 10-20 phr
- Polyethylene - 15-30 phr
- Urethane Rubber - 20-30 phr
- HIPS- 15-30 phr

#### PACKAGING: 50 pound net weight bags

gpb – 10/12, t-akrochlor cfr-25

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