

Flame retardant vs Fire retardant

| | Flame protection system | Advantage 😊 | Disadvantage |
|-----------------|---|--|--|
| Flame retardant | Chalk / silicon | Low content of filler Low cost system Easy processing | Limited fire retardancy |
| Fire retardant | Aluminium Trihydrate (+ chalk) | Standard system High fire retardancy | High content of filler Special extruder design |
| | Magnesium hydroxide | High fire retardancy Simulate to ATH Higher melt temperature | High content of filler Higher cost compare to ATH |
| | Special additives Nanofiller Silicate | Additive to all systems Lower heat release Ash stability | Cost increase |