

Chemistry of Sparklers



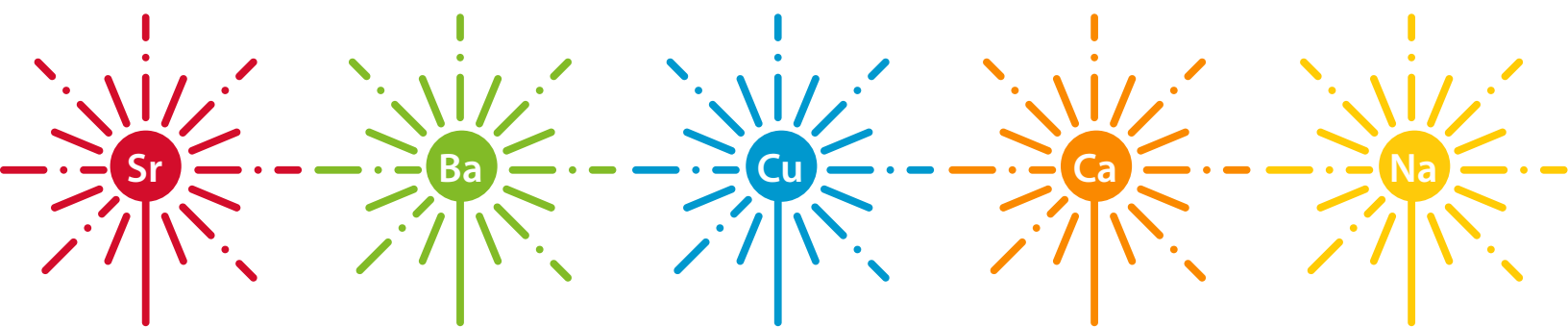
Nitrates or chlorates are oxidizers for sparklers

Dextrin and nitrocellulose are combustible binders that hold composition together

The metal fuels used produce different colors:



Colorants are From Metal Salts



Sparklers sparkle when tiny flecks of metal are burned giving a pop of sparkle. Sparklers are composed of several parts: a non-combustible metal handle or wire that is repeatedly dipped in a batter of combustible material that is allowed to cake and dry on the handle. Sparklers rely on fuel, oxidants and colorants to produce their color and flash.