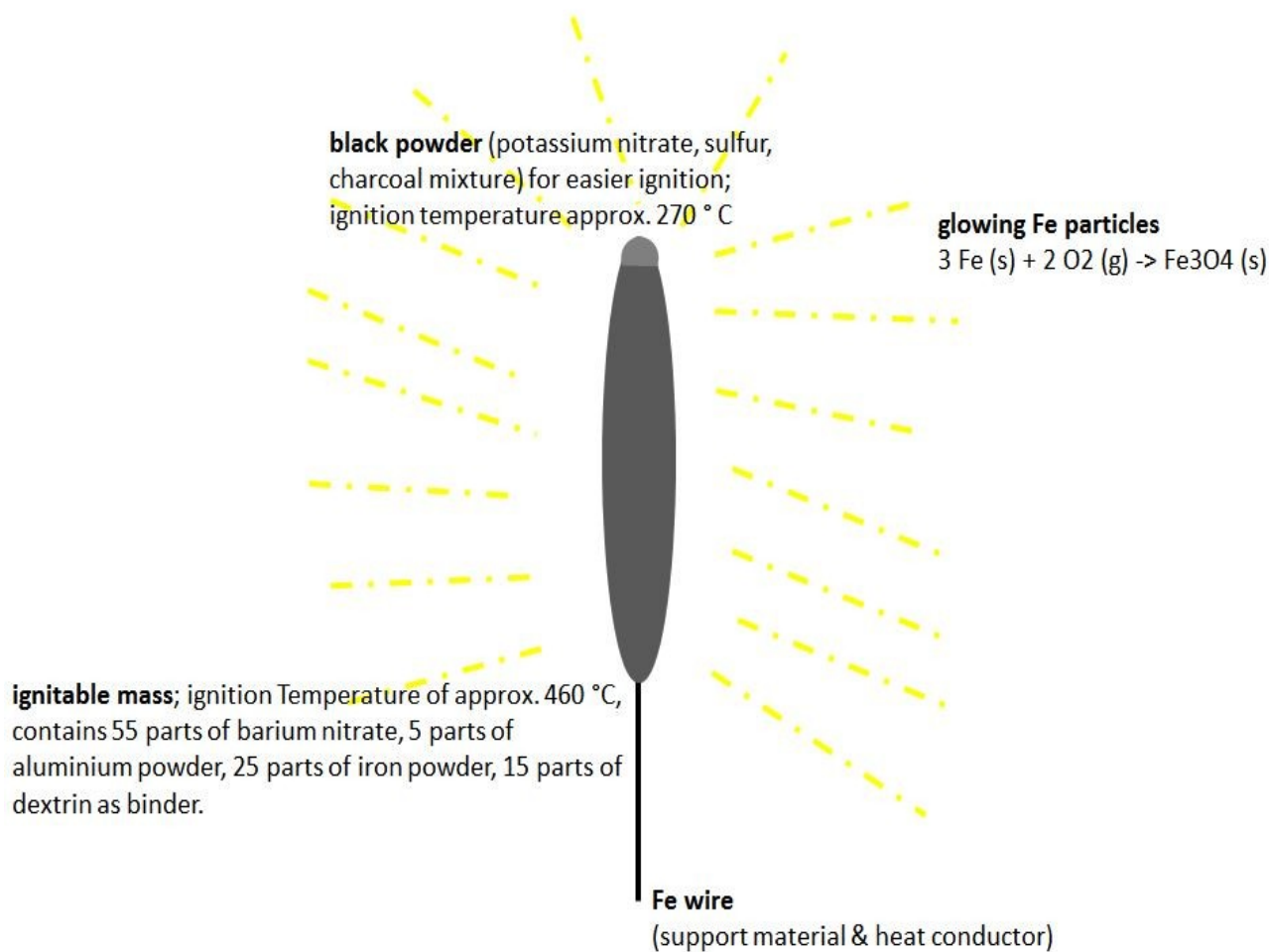
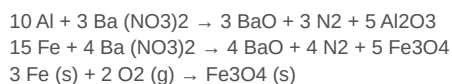


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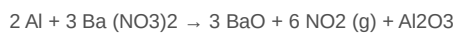
Chemistry of a Sparkler



Typical redox-reactions taking place during ignition include:



You should not burn a sparkler indoors because part of the nitrate nitrogen is not completely reduced to the oxidation stage zero, but released as nitrogen dioxide:



- [Chemie der Wunderkerze – ein Thema nicht nur in der Weihnachtszeit,](#)

Christina Martin, Tönjes de Vries,
 Chemkon 2014, 11 (1), 13–20.
 DOI: [10.1002/ckon.200410002](https://doi.org/10.1002/ckon.200410002)