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Chemical and mineralogical characterization of highly and less reactive coal from northern Natal and Venda-Pafuri coalfields in South Africa

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Highlights

- Venda-Pafuri coal has more of vitrinite and total reactivity hence is less reactive
- Vryheid Coal from has more carbon, oxygen and oxygen absorption rate, is reactive
- Vryheid coal, has higher volatile matter which can also makes it more spontaneous
- Non-spontaneous Vryheid coal has high ash content, which inhibits combustion.
- Venda-Pafuri coal has low critical self-heating temperature values hence spontaneous

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