



## DRAFT TANZANIA STANDARD

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**TBS/MMDC 3 (5637) P3 *coal for cement manufacture-  
Specifications***

Draft Standard for public comments

**TANZANIA BUREAU OF STANDARDS**

## 0 Foreword

This draft Tanzania Standard is being prepared by the Solid Minerals and Related Products Technical Committee (MMDC 3), under the supervision of the Mining and Minerals Standards Divisional Committee (MMDC).

Coal being the main source of energy and one of the basic ingredients, its quality is very important for cement manufacture.

The use of inconsistent quality of coal results in numerous operational problems such as reduced coal mill output rates and increased grinding energy, improper and inefficient combustion, increased fuel consumption and need for better quality, limestone, deterioration in clinker quality and inconsistent production, etc.

In preparation of this draft Tanzania Standard assistance was derived from India National Standard **IS 12770:1989** Coal for cement manufacture – Specifications.

## 1 Scope

This draft standard specifies the requirement and methods of testing coal for cement manufacturing.

## 2 Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this national draft standard.

- i) TZS 2173:2018 - Solid mineral fuels - Determination of total sulfur - Eschka method.
- ii) TZS 2174:2018 - Hard coal - Size analysis by sieving.
- iii) TZS 2092:2017 - Solid mineral fuels – Determination of ash
- iv) TZS 2088:2017 - Hard coal and coke – Determination of volatile matter
- v) TZS 2089:2017 - Hard coal – Determination of total moisture
- vi) TZS 1934 - 2:2016 - Solid mineral fuels - Vocabulary - Part 2: Terms relating to sampling, testing and analysis
- vii) TZS 2093:2017 - Solid mineral fuels — Determination of gross calorific value by the bomb calorimetric method and calculation of net calorific value

### 3 Requirements

Coal shall comply with the requirements specified in the table below when tested according to the methods prescribed in the relevant Tanzanian Standards

| S/N  | Characteristic   | Requirement | Methods of test, ref to clause in Tanzanian Standard |
|------|--|-------------|--|
| i.   | Total moisture content (percent by mass, <i>max</i> )        | 10          | TZS 2089   |
| ii.  | Volatile matter (air dry basis), percent by mass, <i>min</i> | 21          | TZS 2088   |
| iii. | Ash, percent by mass, <i>max</i>                             | 50          | TZS 2092   |
| iv.  | Sulphur, percent by mass, <i>max</i>                         | 1           | TZS 2173   |
| v.   | Size, mm, <i>max</i>   | 100         | TZS 2174   |
| vi.  | Calorific value (Kcal/kg), <i>min</i>                        | 4000        | TZS 2093   |