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Handmade Baskets Specification

Part 2: Fireless cooker basket



**Kenya Bureau of
Standards**

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Handmade Baskets Specification

Part 2: Fireless cooker basket

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Introduction

A fireless cooker basket is an insulating basket that traps heat and allows the cooking process to be completed without using additional fuel. When used regularly a fireless cooker basket reduces the amount of fuel consumed. Less time cooking over fire also reduces the danger of fire accidents and smoke pollution in the kitchen. A fireless cooker basket is therefore a kitchen-friendly and climate-friendly technology that also helps to minimize the problem of deforestation and air pollution.

A standard is therefore important to promote this concept of energy management and environmental conservation by ensuring that the fireless cookers baskets produced are sustainable, safe and are of good quality. The standard will also provide guidance to those who would like to make and/or use the baskets.

Foreword

This Kenya Standard was prepared by the Technical Committee on Joint TC Handmade textile products and Ready Made Garments under the direction of the Textile Industry Standards Committee and the National Standards Council.

In the development of this standard, KS 1225:2003 Vacuum ware, insulated flasks and jugs for domestic use Specification and data from SMES dealing manufacturing fireless cookers baskets weavers were used.

Acknowledgement is hereby made for their assistance in development of the standard.

1. SCOPE

This Kenya Standard specifies the requirements for fireless cooker baskets.

2. Normative references

In this document there were no referenced documents used.

3. TERMS AND DEFINITIONS

For the purpose of this standard, the following definitions shall apply:

- 3.1 Fireless cooker basket** — An insulated basket that traps heat and allows the cooking process to be completed without using additional fuel and also keep the food warm for certain duration of time.

Note: Figure 1 illustrates an example of a complete fireless cooker basket

4. REQUIREMENTS

4.1 General requirements

- 4.1.1 The fireless cooker basket shall comprise of a handmade basket, insulating material, heat resistant material for trapping the heat and cotton fabric for absorbing any moisture.
- 4.1.2 The handmade basket used to make the fireless cooker basket shall be woven from papyrus reeds, kikuyu grass and any other suitable natural material. Baskets made from plastic materials shall not be used. Example of the basket for use is indicated in Figure 2
- 4.1.3 The finished fireless cooker basket shall be in good shape and free from any defects like tears, holes and stains
- 4.1.5 The fireless basket shall be made in a way that the insulating material does not poke through the weaves in the basket
- 4.1.6 The foundational warps at the bottom shall be slightly longer than the height of the finished basket to avoid joints of the warps during weaving which creates weak joints. In case addition of warps is required it shall be done in a manner that does create weak joints.

5. Specific Requirements

5.1 Heat loss

The final temperature of the water in a fireless cooker basket when measured in accordance with clause 5.1.1 shall not be less than 50°C.

5.1.1 heat loss test

5.1.1.1 Apparatus

Thermocouple, accurate to ± 1 °C in the range 70 °C to 100 °C with fine wire connection to a recording or read-out facility

Plastic container of 1 litre

5.1.1.2 Procedure

Fill the Plastic container with hot water $\geq 95^{\circ}\text{C}$ and place inside the basket. Close the basket with its lid and After Leaving the plastic container with hot water inside the basket for 6 h ± 5 min at a temperature of 20 ± 2 °C, Record the temperature of the water.

6 Labelling

Each fireless cooker basket shall have a label securely attached bearing the following information:

- a) manufacturer's name or registered trade mark;
- b) capacity of the basket
- c) instructions for use, care and storage
- d) country of manufacture

Annex A



Figure 1: Example of complete fireless cooker basket



Figure 2: Example of Handmade Basket