DRAFT TANZANIA STANDARD

Standard Specification for Mineral Filler for Asphalt Mixtures.

TANZANIA BUREAU OF STANDARDS

1st Edition

0 National Foreword

The Tanzania Bureau of standards is the statutory national standards body for Tanzania, established under the act.No.3 of 1975, amended by act.No.2 of 2009.

This draft Tanzania Standard is being prepared by BCDC 5 Roads Technical Committee under the supervision of the Building and Construction Divisional Standards committee (BCDC).

In the preparation of this draft Tanzania Standard assistance was derived from ***ASTM D242/D242M-19 (reapproved 2024) Standard Specification for Mineral Filler for Asphalt Mixtures. published by American Society for Testing and Materials (ASTM)***

1 Scope

This specification covers mineral filler added as a separate ingredient for use in asphalt mixtures.

2 Normative references

The following referenced documents are indispensable for application of this standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

C50/C50M Practice for Sampling, Sample Preparation, Packaging, and Marking of Lime and Limestone Products.

C183/C183M Practice for Sampling and the Amount of Testing of Hydraulic Cement

C311/C311M Test Methods for Sampling and Testing Coal Ash or Natural Pozzolana for Use in Concrete

D8 Terminology Relating to Materials for Roads and Pavements

D546 Test Method for Sieve Analysis of Mineral Filler for Asphalt paving mixture

D4318 Test methods for liquid limit, plastic limit and Plasticity index of soils.

3 Terminology

For definitions of terms used in this standard, see Terminology D8.

4 General Description

Mineral filler shall consist of finely divided mineral matter such as rock dust, slag dust, hydrated lime, hydraulic cement, fly ash, loess, or other suitable mineral matter. At the time of use, it shall be sufficiently dry to flow freely and essentially free from agglomerations.

5 Physical Requirements

5.1 Mineral filler shall be graded within the following limits:

Sieve Percent	Passing (by Mass)
1.18 mm (No. 16)	100
600 µm (No. 30)	97 to 100
300 µm (No. 50)	95 to 100
75 µm (No. 200)	70 to 100

5.2 Mineral filler prepared from rock dust, slag dust, loess, and similar materials shall be essentially free from organic impurities and have a plasticity index not greater than 4.

NOTE 1—Plasticity index limits are not appropriate for hydrated lime and hydraulic cement Marking

6. Methods of Sampling and Testing

6.1 Sample the mineral filler according to Practice C50/C50M or C183/C183M, or Test Methods C311/C311M, which-ever is most appropriate for the material being sampled, except as noted in 6.1.1.

6.1.1 Obtain samples at random intervals not to exceed each 300 tons of material as delivered.

6.2 The minimum size of field samples shall be 5.0 kg. Reduce the field sample to a minimum size of 2.5 kg for testing.

6.3 Determine the grading of the material by Test Method D546.

6.4 Determine the plasticity index by Test Methods D4318