

KES

Method of Manganese
Analysis in Copper Alloys
and Copper Product.

KES T – M052

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1. Scope of application.

This standard shall prescribe for method of manganese analysis in copper alloys and copper product.

2. General fact.

General fact of method analysis shall follow KES T-M039

(Method of analysis in copper alloys and copper product)

3. Analysis method.

Manganese analysis in copper alloys and copper product is to be analyzed by following 3 ways.

- (1) Volume analysis : Applied to sample containing manganese more than 0.5%
- (2) Photometry : Applied to sample containing manganese less than 0,5%
- (3) Atom photometry : Applied to sample containing manganese 0.01 ~ 3.0%

4. Volume analysis

4.1 Outline.

After dissolving sample in mixture acid, acidity with double peroxide surfate and fix quantity as applying with arsenious acid.

4.2 Reagent

- (1) Mixture acid (Surfate4 : Water20 : Phosphoric acid 5 : Nitrate acid 10)
- (2) Hydroxide fluor acid
- (3) Gilt nitrate solution (0.8% solution)
- (4) Ammonium peroxide surfate (25%) : Use with 12 hours of prescribing.
- (5) Natrium arsenious standard solution (0.7mg / ml MN) : Follow KS M 0002 (Prescribing method of standard solution for chemical analysis)
- (6) Water : Distilled water