KES

Method of Nickel Analysis in Copper Alloys and Copper Product.

KES T – M051

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1. Scope of application

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

2. General fact.

General fact of method analysis shall follow KES bT-M039 (Method of nickel analysis in copper alloys and copper product)

3. Analysis method.

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

(1) Mass analysis : Applied to sample containing nickel more than 1%

(2) Photometry : Applied to sample containing nickel 0.01 ~ 7.0%

(3) Atom photometry : Applied to sample containing nickel less than 1%

4. Mass analysis

4.1 Outline.

After dissolving sample in mixture acid, electrolysis copper to separate and make alkaline with ammonia then deposit nickel with dimethyl glyoxime and dry at 110 ~ 120 °C then fix quantity for nickel.

4.2 Reagent.

(1) Mixture acid: Make with mixing Nitric acid, surfate, water at the rate of volume 7 : 10 : 40

(2) Ammonia(1 : 1)

(3) Tartar solution(5%)

(4) Dimethyl glyoxime alcohol solution (1%)

4.3 Equipment

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