

KES

Analysis Method for Alloy
Element in Titanium Alloy

KES T – M246

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6. Analysis Method of Alloy Element

1. Scope of application

This standard shall prescribe analysis method for alloy element in Ti alloy.

2. Summary of test

General item in common for Analysis method is according to KES T-M014 (Quantitative analysis standard for metal & nonmetal by using atomic absorption spectrometer), KES T-M002 (Analysis standard for flame radiation & atomic absorption).

3. Analysis items

Analysis item described in this standard is as follows.

Iron (Fe), copper (Cu), nickel (Ni), manganese (Mn), molybdenum (Mo), chrome(Cr), titanium(Ti)

4. Extraction and treatment method of sample

4.1 Sample should be powder or chip in principle, be care that chip obtained by drilling has average composition with extracting it in many points and confirm mixing of foreign body.

4.2 When extracting sample for analysis, use a chemical balance and measure precisely it by 0.1 mg.

5. Conclusion method of analysis value

5.1 In analysis, content must be corrected by operating blank test throughout whole test.

5.2 Analysis result shall be present as percentage, conclude it according to conclusion method of value KES A-A003 as follows.

(1) Titanium is 1 cipher of decimal point

(2) The rest component is 2 cipher of decimal point