SN

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Determination of Chromium (VI) in electrical and electronic equipment—

Part 3: 1,5-Diphenylcarbohydrazide spectrophotometric method

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Determination of Chromium (VI) in electrical and electronic equipment—

Part 3: 1,5-Diphenylcarbohydrazide spectrophotometric method

1 Scope

This Part regulates the diphenylcarbazide spectrophometry of the hexavalent chromium in the electrical and electronic products.

This Part is applicable to the determination of the hexavalent chromium in the electrical and electronic products.

2 Summary for the methods

The alkaline leaching solution is adopted to leach the water-soluble and non-water-soluble hexavalent chromium in the samples. The hexavalent chromium in the leaching solution generates the amaranth complex after interaction with the acidic solution and diphenylcarbazide. The spectrophometry shall be conducted at the wavelength of 540nm.

3 Reagents and materials

Unless otherwise specified, only the analytically pure reagents and distilled water or deionized water or the water with certain purity can be used in the analysis.

- 3.1 Nitrate: guarantee reagent
- 3.2 Sulfuric acid: guarantee reagent
- **3.3** Sodium hydroxide
- 3.4 Anhydrous sodium carbonate
- **3.5** Dipotassium phosphate
- **3.6** Potassium dihydrogen phosphate
- **3.7** Potassium dichromate: reference substance.
- 3.8 Diphenylcarbazide
- 3.9 Acetone.
- **3.10** Sulfuric acid solution (1+9)
- **3.11** Sulfuric acid solution (5mol/L): measure 31mL of nitric acid (3.1) and add it to 69mL of water and mix them. It is forbidden to prepare with the nitric acid with brown fumes.



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