

Application Memo

Moisture in Toothpaste

Industry	Organic chemical industry
Instrument	Karl Fischer moisture titrator
Measurement method	Volumetric titration (Evaporation method)
Standards	JIS K 0113, ASTM E 203, ISO 760

1. Overview

Cosmetics such as toothpaste are hardly dissolved in KF solvents. So, we introduce the evaporation method. In this method, evaporated moisture in the evaporator is transferred to KF titration cell by carrier gas. Moisture in toothpaste is titrated according to JIS K 0113.

2. Apparatus

Main unit	Karl Fischer moisture titration volumetric system Evaporator
Electrode	Twin platinum electrode

3. Reagents

Titant	HYDRANAL™ Composite 5
Solvent	HAYASHI™ Solvent ME

4. Example

Sample	Sample size (g)	Evaporation temperature (°C)	Moisture content	
			mg	%
Tooth paste	0.1546	250	44.90	29.05

Please feel free to contact us for any further information.
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