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**NONFERROUS METALS INDUSTRY STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA**

**YS/T 555.11-2009**

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**Methods for chemical analysis of molybdenum concentrate.  
Determination of oil and moisture content. Gravimetry**

钼精矿化学分析方法油和水分总含量的测定重量法

**(English Translation)**

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### Foreword

YS/T 555 "Methods for chemical analysis of molybdenum concentrate" consists of 11 parts:

YS/T 555.1 Methods for chemical analysis of molybdenum concentrate -  
Determination of molybdenum content - Lead molybdenum gravimetry

YS/T 555.2 Methods for chemical analysis of molybdenum concentrate -  
Determination of silicon dioxide content - Silicon molybdenum blue  
spectrophotometry and gravimetry

YS/T 555.3 Methods for chemical analysis of molybdenum concentrate -  
Determination of arsenic content - Atomic fluorescence spectrometry

YS/T 555.4 Methods for chemical analysis of molybdenum concentrate -  
Determination of tin content - Atomic fluorescence spectrometry

YS/T 555.5 Methods for chemical analysis of molybdenum concentrate -  
Determination of phosphorus content - Phosphorus molybdenum blue  
spectrophotometry

YS/T 555.6 Methods for chemical analysis of molybdenum concentrate -  
Determination of copper, lead, bismuth and zinc content - Flame atomic  
absorption spectrometry

YS/T 555.7 Methods for chemical analysis of molybdenum concentrate -

Determination of calcium oxide content - Flame atomic absorption  
spectrometry

YS/T 555.8 Methods for chemical analysis of molybdenum concentrate -

Determination of tungsten content - Thiocyanate spectrophotometry

YS/T 555.9 Methods for chemical analysis of molybdenum concentrate -

Determination of potassium and sodium content - Flame atomic absorption  
spectrometry

YS/T 555.10 Methods for chemical analysis of molybdenum concentrate -

Determination of rhenium content - Thiocyanate spectrophotometry

YS/T 555.11 Methods for chemical analysis of molybdenum concentrate -

Determination of oil and moisture content - Gravimetry

This Part is Part 11.

This Part replaces YS/T 555.12-2006 "Molybdenum concentrates -

Methods for chemical analysis of molybdenum

concentrate - Determination of oil and moisture

content - Gravimetry

## 1 Scope

This Part specifies the method for determining the oil and moisture content of molybdenum concentrate.

This Part applies to the determination of oil and moisture content in loose molybdenum concentrate. The determination range is 0.50%~15.00%.

## 2 Method summary

WEIGH the molybdenum concentrate sample; at  $(150\pm 5)^{\circ}\text{C}$ , DRY it to a constant mass; determine the oil and moisture content.

**3.2 Drying oven:** It has an adjustable temperature-control device, with a temperature error of less than  $\pm 5$  °C. It also has a blower device which can make the air in the drying oven flow without blowing away the sample.

#### **4.1 Sample**

WEIGH 10 g of sample, accurate to 0.001 g.

#### **4.2 Number of determinations**

Perform 2 determinations independently. TAKE the average. If the two analysis results are out of the error range, re-sample for determination.

#### **4.3 Determination**

PLACE the sample (4.1) in a dry, pre-constant weight weighing bottle of known

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