ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 317

METHODS OF CHEMICAL ANALYSIS OF MANGANESE ORES DETERMINATION OF ARSENIC

1st EDITION July 1963

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BRIEF HISTORY

The ISO Recommendation R 317, Methods of Chemical Analysis of Manganese Ores— Determination of Arsenic, was drawn up by Technical Committee ISO/TC 65, Manganese Ores, the Secretariat of which is held by the Komitet Standartov, Mer i Izmeritel'nyh Priborov pri Sovete Ministrov SSSR.

Work on this question by the Technical Committee began in 1954 and led, in 1957, to the adoption of a Draft ISO Recommendation.

In October 1958, this Draft ISO Recommendation (No. 250) was circulated to all the ISO Member Bodies for enquiry. It was approved by the following Member Bodies:

Austria Bulgaria Burma Chile Czechoslovakia France Germany Hungary India Ireland Italy Japan Netherlands Poland

Portugal Republic of South Africa Romania Spain United Kingdom U.S.S.R.

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No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided, in July 1963, to accept it as an ISO RECOMMENDATION.

ISO Recommendation	R 317	July 1963
METHODS OF CHEMIC DETERMIN	TAL ANALYSIS OF MAN NATION OF ARSEN	
(At	omic mass As: 74.91)	
This ISO Recommendation contains two parts:		
I. Introduction		section 1,
II. Colorimetric method of arsenic determination in the form of a blue arseno- molybdate complex		
I. INTRODUCTION		
1. GENERAL INSTRUCTIONS		
1.1 In the following analysis, use a sum which has been crushed to a size priate size.		
Simultaneously with the collection of samples for the determination of arsenic, take three more test samples for the determination of hygroscopic moisture.		
Calculate the content of arsenic in ore which is absolutely dry by multiplying the numerical results of the determination of arsenic by the conversion factor K, as found from the following formula:		
$K = \frac{100}{100 - A}$		
	100 - A	
where	a content and cost	0
 A = hygroscopic moisture content, per cent. 1.2 The determination of arsenic in manganese ore is carried out by simultaneously analysing three samples of ore, with two blank determinations to enable a corresponding correction in the result of the determination to be made. 		
Simultaneously and under the same conditions, carry out a check analysis of a standard sample of manganese ore, for arsenic content.		
The arithmetical mean of the three results is accepted as the final result.		