## TECHNICAL REPORT

### ISO/TR 21074

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# Application of ISO 5725 for the determination of repeatability and reproducibility of precision tests performed in standardization work for chemical analysis of steel

Application de la norme ISO 5725 pour la détermination de la répétabilité et la reproductibilité des essais de précision réalisés en travaux de normalisation pour l'analyse chimique de l'acier





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CO	ontents	Page
Fore	reword	iv
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Precision test	1
	4.1 Structure of the precision test	
	<ul><li>4.2 Homogeneity of samples</li><li>4.3 Number of laboratories and number of levels</li></ul>	2 2
5	Representation of the experimental results	
	5.1 General	2
	5.2 Table of results and number of decimal places	
	5.3 Graphical representation of the data	
	5.3.2 Data plot	
6	Statistical evaluation	4
	6.1 Cochran's test	5
	6.2 Grubbs' test	
	6.2.2 Grubbs' test for one outlier observation	
	6.2.3 Grubbs' test for two outlier observations	7
	6.3 Treatment of outlier observations	
	6.4 Calculation of precision	
	6.6 Functions linking the level and the precision parameters	13
7	Determining smoothed precision and scope	15
Bibl	oliography	16

#### Foreword

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The committee responsible for this document is ISO/TC 17, Steel, Subcommittee SC 1, Methods of determination of chemical composition.

# Application of ISO 5725 for the determination of repeatability and reproducibility of precision tests performed in standardization work for chemical analysis of steel

#### 1 Scope

This document describes how to determine the repeatability and reproducibility of precision tests performed within standardization work using the chemical analysis method. Specifically, this document explains the procedure for calculating precision, using precision test data of ISO 5725-3:1994, Table D.2 for the precision test in ISO 9647:1989 as an example.

The procedure of the international test for determining precision is described in ISO 5725-2 and ISO 5725-3.

#### 2 Normative references

There are no normative references in this document.

#### 3 Terms and definitions

No terms and definitions are listed in this document.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <a href="http://www.electropedia.org/">http://www.electropedia.org/</a>
- ISO Online browsing platform: available at <a href="http://www.iso.org/obp">http://www.iso.org/obp</a>

#### 4 Precision test

#### 4.1 Structure of the precision test

The structure of the precision test normally used within standardization work using chemical analysis is a 3-factor, staggered-nested structure, as shown in Figure 1.

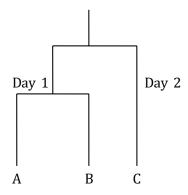


Figure 1 — Structure of the precision test