AS ISO 11790:2015
ISO 11790:2010

AS ISO 11790:2015

Australian STANDARD

Copper, lead, zinc and nickel concentrates—Guidelines for the inspection of mechanical sampling systems

STANDARDS Australia

This Australian Standard® was prepared by Committee MN-005, Copper, Lead, Zinc and Nickel Ores and Concentrates. It was approved on behalf of the Council of Standards Australia on 26 August 2015.
This Standard was published on 29 September 2015.

The following are represented on Committee MN-005:

- Australasian Institute of Mining and Metallurgy
- CSIRO
- Minerals Council of Australia

This Standard was issued in draft form for comment as DR AS ISO 11790:2015.

Standards Australia wishes to acknowledge the participation of the expert individuals that contributed to the development of this Standard through their representation on the Committee and through the public comment period.

Keeping Standards up-to-date

Australian Standards® are living documents that reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued.

Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments that may have been published since the Standard was published.

Detailed information about Australian Standards, drafts, amendments and new projects can be found by visiting www.standards.org.au

Standards Australia welcomes suggestions for improvements, and encourages readers to notify us immediately of any apparent inaccuracies or ambiguities. Contact us via email at mail@standards.org.au, or write to Standards Australia, GPO Box 476, Sydney, NSW 2001.

Australian Standard®

Copper, lead, zinc and nickel concentrates—Guidelines for the inspection of mechanical sampling systems

First published as AS ISO 11790:2015.

Published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001, Australia

ISBN 978 1 76035 251 6

PREFACE

This Standard was prepared by the Standards Australia Committee, MN-005 Copper, Lead, Zinc and Nickel Ores and Concentrates.

The objective of this Standard is to set out recommended practices for the inspection of mechanical sampling systems. It serves as a reference for conformance with applicable International Standards for copper, lead, zinc and nickel concentrates. It also covers general considerations, including precision, quality variation, bias, establishment of inspection systems and inspection procedures.

This Standard is identical with, and has been reproduced from ISO 11790:2010, *Copper, lead, zinc and nickel concentrates—Guidelines for the inspection of mechanical sampling systems*.

As this Standard is reproduced from an International Standard, the following applies:

(a) In the source text 'this International Standard' should read 'this Australian Standard'.

(b) A full point substitutes for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

Reference to International Standard		*Australian Standard*	
ISO		AS	
		2862	Copper, lead, zinc and nickel concentrates—Sampling
12743	Copper, lead, zinc and nickel concentrates—Sampling procedures for determination of metal and moisture content	2862.1	Part 1: Sampling procedures for determination of metal and moisture content
12744	Copper, lead, zinc and nickel concentrates—Experimental methods for checking the precision of sampling	2862.2	Part 2: Experimental methods for checking the precision of sampling
13292	Copper, lead, zinc and nickel concentrates—Experimental methods for checking the bias of sampling	2862.3	Part 3: Experimental methods for checking the bias of sampling

Only normative references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

The term 'informative' has been used in this Standard to define the application of the annexes to which it applies. An 'informative' annex is only for information and guidance.

CONTENTS

AUSTRALIAN STANDARD

Copper, lead, zinc and nickel concentrates—Guidelines for the inspection of mechanical sampling systems

WARNING — This International Standard may involve hazardous materials, operations and equipment. It is the responsibility of the user of this International Standard to establish appropriate health and safety practices and determine the applicability of regulatory limitations prior to use.

1 Scope

This International Standard sets out recommended practices for the inspection of mechanical sampling systems. It serves as a reference for conformance with applicable International Standards for copper, lead, zinc and nickel concentrates.

This International Standard covers general considerations, including precision, quality variation, bias, establishment of inspection systems and inspection procedures.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 12743, *Copper, lead, zinc and nickel concentrates — Sampling procedures for determination of metal and moisture content*

ISO 12744, *Copper, lead, zinc and nickel concentrates — Experimental methods for checking the precision of sampling*

ISO 13292, *Copper, lead, zinc and nickel concentrates — Experimental methods for checking the bias of sampling*

ISO 20212, *Copper, lead, zinc and nickel sulfides — Sampling procedures for ores and smelter residues*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 12743, ISO 12744, ISO 13292 and ISO 20212 and the following apply.

3.1
audit
critical review of a mechanical sampling system, undertaken by a suitably qualified person not directly involved in the operation of that system, which measures its compliance with stipulated operating specifications