



**ISO 12744**

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

*Concentrés de cuivre, de plomb, de zinc et de nickel — Méthodes expérimentales de contrôle de la fidélité de l'échantillonnage*

**Third edition  
2025-03**

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This document was prepared by Technical Committee ISO/TC 183, *Copper, lead, zinc and nickel ores and concentrates*.

This third edition cancels and replaces the second edition (ISO 12744:2006), which has been technically revised.

The main changes are as follows:

- the precisions of sampling, sample preparation and measurement are now estimated from the mean squared differences between duplicates rather than simply the mean differences, which provides a better unbiased estimate of precision.

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