International Standard 7087

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Ferroalloys — Experimental methods for the evaluation of the quality variation and methods for checking the precision of sampling

Ferro-alliages — Méthodes expérimentales d'évaluation de la variation de qualité et méthodes de contrôle de la fidélité de l'échantillonnage

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Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7087 was prepared by Technical Committee ISO/TC 132, *Ferroalloys*.

Contents

Ferroalloys — Experimental methods for the evaluation of the quality variation and methods for checking the precision of sampling

1 Scope and field of application

This International Standard specifies experimental methods for the evaluation of quality variation of ferroalloys for the purposes of determining the parameters of random sampling and two-stage sampling given in the relevant International Standards. It also specifies the methods for checking the precision of taking samples by the random method and two-stage method.

2 References

ISO 3713, *Ferroalloys — Sampling and sample preparation — general rules.*[1)]

ISO 4552/1, *Ferroalloys — Sampling and sample preparation for chemical analysis — Part 1 : Ferrochromium, ferrosilicochromium, ferrosilicon, ferrosilicomanganese and ferromanganese.*[1)]

ISO 4552/2, *Ferroalloys — Sampling and sample preparation for chemical analysis — Part 2 : Ferrotitanium, ferromolybdenum, ferrotungsten, ferroniobium and ferrovanadium.*[1)]

ISO 5445, *Ferrosilicon — Specification and conditions of delivery.*

ISO 5446, *Ferromanganese — Specification and conditions of delivery.*

ISO 5447, *Ferrosilicomanganese — Specification and conditions of delivery.*

ISO 5448, *Ferrochromium — Specification and conditions of delivery.*

ISO 5449, *Ferrosilicochromium — Specification and conditions of delivery.*

ISO 5450, *Ferrotungsten — Specification and conditions of delivery.*

ISO 5451, *Ferrovanadium — Specification and conditions of delivery.*

ISO 5452, *Ferromolybdenum — Specification and conditions of delivery.*

ISO 5453, *Ferroniobium — Specification and conditions of delivery.*

ISO 5454, *Ferrotitanium — Specification and conditions of delivery.*

ISO 7347, *Ferroalloys — Experimental methods for checking the bias of sampling and sample preparation.*[1)]

ISO 7373, *Ferroalloys — Experimental methods for checking the precision of sample division.*[1)]

3 General requirements for experiment

3.1 Quality variation

The quality variation is a measure of heterogeneity of the ferroalloy and is expressed in terms of the standard deviation denoted by σ. It shall be the standard deviation between increments (σ_i) for random sampling, and the standard deviations between packed units (σ_b) and within packed units (σ_w) for two-stage sampling.

1) At present at the stage of draft.