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General rules for sampling, sample preparation and analytical testing of non-ferrous metals

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General rules for sampling, sample preparation and analytical testing of non-ferrous metals

1 Scope This Japanese Industrial Standard specifies the general matters relating to the sampling, sample preparation and analytical testing of non-ferrous metals.

2 Definitions The definitions of main terms used in this Standard are in accordance with the following:

- (1) **analytical testing** It means that to judge the acceptability by carrying out analysis using the prepared sample for analysis, and comparing its result with the specified value of the chemical component specified in the product standard.
- (2) **lot** A quantity of metal to be subjected to sampling.
- (3) **sampling** It means that to collect the samples by means of casting or picking out of the lot of metal.
- (4) **molten metal sampling** It means that to collect a casting sample from the molten metal as a primary sample.
- (5) **product sampling** It means that to sample a cathode, ingot and the like as a primary sample.
- (6) **sample preparation** It means that to prepare the sample for analysis from the primary sample obtained by sampling.
- (7) **composite sample** A combination of two or more samples prepared by mixing weighed out samples for analysis from plural lots manufactured in a certain period, according to the weight of each lot size.
- (8) **cathode** A plate-shaped cathodic deposition obtained by electro-refining or electro-winning, and that has not been subjected to fusion casting.

3 Sampling and sample preparation

3.1 Place where the sampling and sample preparation are carried out The sampling and sample preparation shall be carried out at the factory prior to shipment. However, these may be allowed to carry out at the stop-over place on the way of transportation or accepting place, as agreed between the parties concerned with delivery.

3.2 Sizes of lots The sizes of the lots shall be in accordance with Table 1 (¹).

Note (¹) When these requirements are not applicable, it shall be as agreed between the parties concerned with delivery.

3.3 Sampling

3.3.1 Types of sampling methods The sampling method shall be in accordance with one of the following: