

Product Information Sheet

RC60/02

Aluminium Base (Type of Standard)
setting up sample

Certified Values

Element	Mass content [%]
Silicon (Si)	(1.34)
Iron (Fe)	(0.49)
Copper (Cu)	(0.29)
Manganese (Mn)	(1.1)
Magnesium (Mg)	(0.92)
Chromium (Cr)	(0.20)
Nickel (Ni)	(0.10)
Zinc (Zn)	(0.10)
Titanium (Ti)	(0.21)
Bismuth (Bi)	(0.10)
Gallium (Ga)	(0.011)
Phosphorous (P)	(0.0045)
Vanadium (V)	(0.11)

Values in brackets () are not certified but given for information only.

Manufacturing

This standard is produced using six strand hot top vertical continuous casting out of single melt.

Homogeneity

Homogeneity testing is performed by means of spark emission spectroscopy. Tests involve making multiple measurements on individual samples taken at regular intervals along the entire length of each cast rod. Depending on the mass content of the element, the relative standard deviation of multiple measurements between discs or within one disc is typically found between 0.3% - 1% for alloying and other elements and 0.5% - 5% for trace elements.

Analysis

This is a setting up sample. Only homogeneity of this standard is certified. No concentration values are certified. The values given in brackets have been determined using spark source optical emission spectroscopy.

Description of Sample

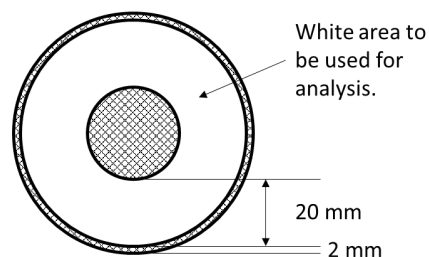
This reference material is available in the form of discs (approx. Ø 60 x 25 mm).

Intended use and Stability

This certified reference material is primarily intended for use in spark optical emission spectroscopy. Other applications are X-ray fluorescence spectrometry (XRF) and classical wet chemical procedures. The minimum sample size for wet chemical analysis is 0.2g. The material will remain stable for the period given below (certification validity) if it is stored in a dry and clean environment at room temperature.

Instructions for Use

Calibration measurements should be made within a ring between 2mm and 22mm from the edge of the CRM face. For wet chemical analysis chips have to be prepared by turning or milling of the sample surface.



Traceability

Traceability of the certified mass contents to the SI (Système International d'Unités) is ensured by calibration using certified standard solutions or pure metals or substances of known stoichiometry.

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