Product Information Sheet

RC11/07

Aluminium Base (Type of Standard)
setting up sample

Indicative Values

Element	Mass content [%]
Silicon (Si)	(0.028)
Iron (Fe)	(0.046)
Copper (Cu)	(0.015)
Manganese (Mn)	(0.016)
Magnesium (Mg)	(0.018)
Chromium (Cr)	(0.011)
Nickel (Ni)	(0.010)
Zinc (Zn)	(0.020)
Titanium (Ti)	(0.015)
Silver (Ag)	(0.010)
Arsenic (As)	(0.005)
Barium (Ba)	(0.001)
Beryllium (Be)	(0.002)
Bismuth (Bi)	(0.010)
Calcium (Ca)	(0.0024)
Cadmium (Cd)	(0.0049)
Cerium (Ce)	(0.003)
Cobalt (Co)	(0.012)
Gallium (Ga)	(0.021)
Mercury (Hg)	(0.005)
Indium (In)	(0.010)
Lanthanum (La)	(0.012)
Lithium (Li)	(0.0008)
Molybdenum (Mo)	(0.026)
Sodium (Na)	(0.0015)
Phosphorus (P)	(0.0029)
Lead (Pb)	(0.015)
Antimony (Sb)	(0.012)
Scandium (Sc)	(0.010)
Tin (Sn)	(0.018)
Strontium (Sr)	(0.005)
Vanadium (V)	(0.017)
Tungsten (W)	(0.0047)
Zirconium (Zr)	(0.015)

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

Manufacturing
This setting up sample 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 10 to 20 measurements within one disc is influenced by the material homogeneity and stability of the measurement instrument and is typically found to be as follows:

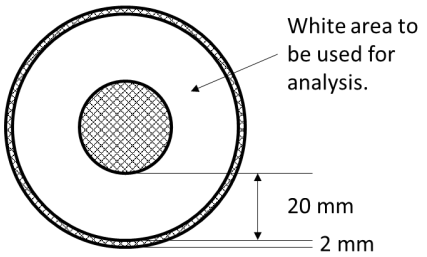
elements with concentration 0.01 % - 0.5 %	< 2 % relative standard deviation
elements with concentration < 0.01 %	< 10 % relative standard deviation
elements: As, Ce, Sb	5 % - 20 % relative standard deviation

Analysis
The analysis of this material was performed in our ISO/IEC 17025 accredited analytical lab (STS 0023) by sparc optical emission spectroscopy. 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 sparc source optical emission spectroscopy.

Description of Sample
This setting up sample is available in the form of discs (approx. Ø 69 x 35 mm).

Intended use and Stability
This setting up sample is primarily intended for use in spark optical emission spectroscopy. Other applications are X-ray fluorescence spectrometry (XRF). 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.



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