



SPL Bohumín

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CERTIFICATE No 04 – 14

REFERENCE MATERIAL OF FREE-CUTTING STEEL for solid sample spectrometry, combustion and wet-way methods

SPL CM-15C

Certified fully compliant with the ISO Guide 35 definition of Reference Material – with the values confirmed and their uncertainties assessed.

Compliant with the ISO Guide 35 definition of Reference Material.

Intended for calibration and the control of matrix-match and of the state of statistic regulation in the automated spectrometry of low alloy steel from a plane of solid sample. They may not substitute CRM in establishing traceability of the results. A single analysis area of at least 4 mm in diameter defines the minimum sample intake. May be used for combustion and wet-way methods too.

Manufactured from the commercially available rolled steel bars.

Supplied as discs of 37 mm in diameter and in 10 or 25 mm standard heights. With size on option of height up to 50 mm on request, steel chips for combustion and wet-way methods.

Homogeneity (random and trend, within- and between- samples) was tested by various analytical techniques of adequate repeatability. Its uncertainty contribution, when statistically significant, was combined to the ultimate uncertainty statement. The RM are **stable** by a nature of material.

Characterised by an interlaboratory experiment of the expert laboratories listed below by various spectrometric (AES spark, glow discharge, XRF) and alternative (combustion, thermoevolution, wet-way) standard methods, with values **traceable** to values of the adequate CRM (CZ 2001, 2003 - 2008, BAS, Brammer Standard).

ENVIFORM a.s., Třinec, Czechia

HUKOS s.r.o., Ostrava, Czechia

LITHEA s.r.o., Brno, Czechia

VÍTKOVICE TESTING CENTER s.r.o., Ostrava, Czechia

ZPS-SLÉVÁRNA, a.s., Zlín, Czechia

ŽĎAS a.s., Žďár nad Sázavou, Czechia

