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**Certificate of Analysis**  
**Part No. B2510**  
**High Carbon Steel pin Standard**

Certificate Number 513A  
Date 11 December 2014  
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**% Carbon****Mean = 2.41****One Sigma Standard Deviation = +/- 0.05****Expanded Uncertainty = +/- 0.11****(k=2.2, 95% confidence)****%Sulphur****Mean = 0.091****One Sigma Standard Deviation = +/- 0.004****Expanded Uncertainty = +/- 0.008****(k=2, 95% confidence)**

Method of analysis is ASTM E 1019-11 and ARI 034

Primary (NMI) Standards Employed:

NIST SRM 107c,8k	
BAM	482-2
JSS	120-1
NCS	HC16006B,HC11010

**Notes:**

The mean analytical values shown are derived by 5 data sets (n=50), showing trace-ability to the above mentioned NMI standards, and reported in mass fraction. The precision values represent the estimated uncertainty derived from the data sets and may not represent your testing capabilities. Refer to your test method for the expanded method derived uncertainty if needed.

The material used in production of this standard was sampled in accordance with ARI 032. The samples used for round robin testing were selected in accordance with ARI 014. The above values relate only to the material used to produce this standard. This bottle consists of 250g,0.5pins(nominal weight), to be used directly from the bottle with no preparation needed. This product has an indefinite shelf life. Keep sealed and store under normal laboratory conditions.

Remedies for any claimed defect in this product will be limited to product replacement or refund of the purchase price. In no event shall Elemental Microanalysis Ltd be liable for incidental or consequential damages.

This is a Certified Reference Material (working standard) and is trace-able to the above-mentioned standards. For good laboratory practice it is recommended that all standards be verified prior to use.

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Certified June 10, 2013